

San Juan Bay and Estuary Study: Water Quality Data Collection

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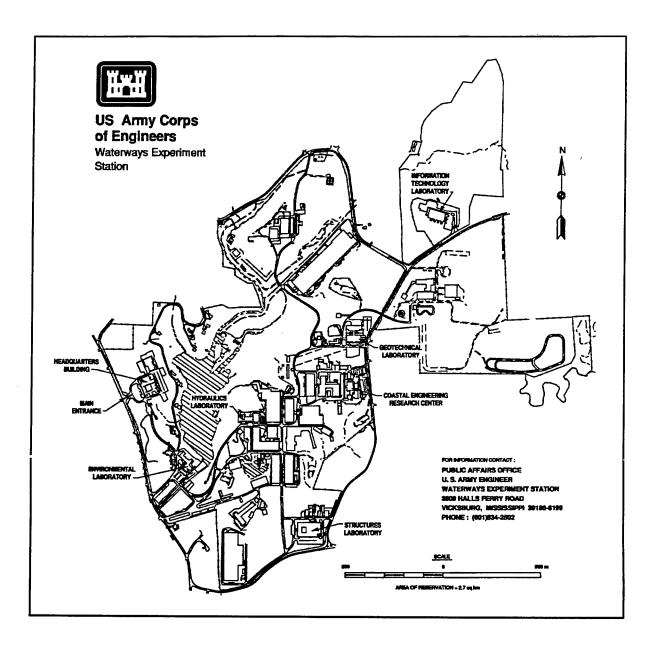
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Preface

Limnological studies of the San Juan Bay and Estuary, Puerto Rico, were conducted during the period June through September 1995. These studies were part of the United States Environmental Protection Agency's (USEPA) National Estuary Program. The study was managed by the U.S. Army Engineer District, Jacksonville, and was sponsored by the USEPA Region II through San Juan Bay and Estuary Program (SJBEP), San Juan, Puerto Rico. Mr. A. J. Salem was Chief, Planning Division, Jacksonville District. Ms. Susan Osofsky was Project Officer, USEPA, and Ms. Tere Rodriquez was Director, SJBEP.

Dr. Mark S. Dortch, Chief, Water Quality and Contaminant Modeling Branch, Environmental Processes and Effects Division (EPED), Environmental Laboratory (EL), U.S. Army Engineer Waterways Experiment Station (WES), was the study manager. The Principal Investigator for work reported here was Dr. Robert H. Kennedy, Ecosystem Processes and Effects Branch (EPEB), EL. The report was prepared by Dr. Kennedy, Mr. William A. Boyd, and Dr. John J. Hains, EPEB; Messrs. John Lemons and Frank Herrmann, DynTel Corporation, Vicksburg, MS; Mr. David Honnell and Dr. Patrick Howell, AScI Corporation, McLean, VA; Dr. Carl Way and Mr. Felix Fernandez, Barry A. Vittor and Associates, Mobile, AL; Dr. Tina Miller-Way, University of Mobile, Mobile, AL; and Dr. Robert R. Twilley, University of Southwestern Louisiana, Lafayette, LA.

This investigation was performed under the supervision of Dr. John W. Keeley, Director, EL; Mr. Donald L. Robey, Chief, EPED; and Dr. Richard E. Price, Chief, EPEB.

At the time of publication of this report, Director of WES was Dr. Robert W. Whalin. Commander was COL Bruce K. Howard, EN.

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1 Introduction

San Juan, Puerto Rico, a metropolitan area with a population of approximately one million people, is located on the northeastern coast of the island of Puerto Rico. The metropolitan area encompasses five municipalities, all of which are located within the San Juan Bay and Estuary (SJBE) system. The SBJE consists of five major water bodies (see Figure 1): Bahia de San Juan, Laguna del Condado, Laguna San Jose, Laguna la Torrecilla, and Laguna de Piñones. The bay and lagoons are connected by narrow channels. Laguna San Jose (San Jose Lagoon), the most interior of the lagoons, is characterized by poor flushing.

Much of the SBJE system has been significantly modified by dredging, sand mining, channelization, and sedimentation. In addition, anthropogenic influences from metropolitan areas of San Juan markedly impact water quality. Water quality problems of concern include high concentrations of coliform bacteria, low dissolved oxygen concentrations, eutrophication, and the presence of toxic substances.

The Environmental Quality Board of Puerto Rico obtained funding from the U.S. Environmental Protection Agency's National Estuaries Program to study possible alternatives to improve circulation and water quality in the SJBE. A hydrodynamic and water quality modeling study was subsequently undertaken to evaluate proposed remediation alternatives. The study includes application of numerical hydrodynamic and water quality models, and the collection of supporting data describing water quality and hydrodynamics.

This report describes the water quality data collection program and presents resulting data. The data collection program was designed to estimate material loadings from selected tributary streams, estimate sediment/water interactions, and characterize water column conditions for selected open-water portions of the SJBE system. Data collection efforts included (1) tributary sampling, (2) water column sampling, (3) fecal coliform bacteria enumeration, and (4) sediment/water material flux measurement.

2 Field Sampling Procedures

Tributary Sampling

Tributaries were monitored to characterize material loadings and to establish water quality model boundary conditions. Initial efforts involved weekly monitoring of 8 tributary streams (Table 1; Figure 2). A ninth stream, Rio Puerto Nuevo, was not sampled due to the backwater nature of this site. The study design required weekly monitoring for a period of 8 weeks. Initial sample collection began July 5, 1995.

In situ measurements (temperature, dissolved oxygen, specific conductance, and pH) were taken from a representative location within the stream cross-section. Grab water samples were also collected from a representative location within the stream cross-section.

Stream discharge (m³/sec) was estimated for three tributaries during each routine sampling event using manual stream gauging methods (World Meteorological Organization 1980). Since successive sampling events included the gaging of different tributaries, each tributary was to be gaged at least twice during the study period. Daily flow measurements for Rio Piedras were obtained from the U.S. Geological Survey gage at Hato Rey (USGS Station Number 50049100).

Identification of the potential impacts of storm-runoff events on water and material loads led to a redesign of the tributary sampling program. The routine weekly monitoring of all tributaries was terminated after the first two sampling events (July 5 and 17, 1995) and the remaining sampling effort was directed at collection of storm runoff on two tributaries, Juan Mendez and Rio Piedras. The sampling site on Juan Mendez was located at Central Avenue; the sampling site on Rio Piedras was located approximately 1 km upstream from the USGS gage at Hato Rey.

Storm event sampling involved collection and storage of multiple samples throughout the storm hydrograph. Following completion of sampling, a subset of samples was saved for subsequent analyses. Samples were chosen so as to adequately represent both the rising and falling portion of the hydrograph.

Water Column Sampling

Water quality samples were collected and *in situ* measurements taken five times at 25 stations distributed throughout the SJBE system (Figure 1; Table 2). All sample locations were determined using a Magellan Promark X Global Positioning System. The five sampling events occurred at intervals of approximately two weeks over a period of eight weeks. Because of logistical considerations, different portions of the system were sampled on consecutive days. Sampling event duration was 3-4 days.

In situ measurements included temperature, pH, specific conductivity or salinity, dissolved oxygen (DO) concentration, Secchi Disk transparency, and water column depth. Temperature, pH, conductivity/salinity, and DO measurements were taken throughout the water column at 1-m intervals at locations having depths less than 10 meters. For stations with depths greater than 10 meters, in situ measurements were taken at 2-m intervals. Near surface (0.5 m depth), mid-depth, and near bottom (0.5 m up from bottom) in situ measurements were taken at the offshore sampling stations.

Water samples were collected at all sampling stations. Discrete samples were taken at mid-depth for all stations with depths less than 3 meters and near-surface (0.5 m) and near-bottom (0.5 m up from bottom) for all stations with depths greater than 3 meters.

Diel Sampling

Diel *in situ* measurements of DO, temperature, pH, specific conductivity, and turbidity were recorded at 15-minute intervals at two locations in San Jose Lagoon during the period 1200 hr, 23 August 1995, to 1745 hr, 24 August 1995. A recording Hydrolab sonde was deployed at a depth of 1.0 m using an anchor-buoy system at a central location near the highway bridge. A second recording Hydrolab sonde was secured at a depth 0.5 m at a boat dock located along the south shore of the lagoon. Due to equipment failure, data collection at the dock site was terminated at 0915 hr, 24 August 1995. Equipment was calibrated prior to and following deployment. Data were downloaded to a notebook computer following equipment retrieval.

Sediment-Water Flux Sampling

Core samples were collected and returned to a field laboratory for incubation and analysis. Intact sediment-water microcosms were collected at eight stations (Figure 3; Table 3) during the period 10-14 August, 1995, by SCUBA divers. At each site, three 5-inch diameter acrylic sample cores were collected. Difficulties in obtaining samples were encountered at stations in San Jose Lagoon due to the presence of large rafts of bivalves, identified as

Perna perna (Per. Comm., D. Sheldon, Barry A. Vittor and Associates, Mobile, AL). Locations of these stations were adjusted to avoid bivalve shells.

Approximately 70 liters of overlying water were also collected using a submersible pump. Care was taken to minimize aeration during sample collection and transport. A light profile was recorded using a LiCor light meter at the two stations (SJW5/6 and PL9/10) for which coincident light and dark incubations were to be performed.

3 Sample Collection, Handling and Preservation Procedures

Water Samples

Water samples were obtained at all stations using a bilge pump. Samples were obtained from mid-depth for all open-water stations with depths less than three meters, and near-surface (0.5 m) and near-bottom (0.5 m up from bottom) for all stations with depths greater than three meters.

Water was initially retained in rinsed, 1-liter polyethylene (PPE) bottles (3 bottles/station), placed on ice, and stored in the dark. An appropriate fraction of each sample was filtered (0.45- μ m membrane) and stored in PPE and amber glass bottles within 6 hours of collection. The remaining unfiltered fraction was stored in PPE and amber glass bottles. Samples for selected analyses were acidified with 1:1 H_2SO_4 to pH < 2. Sample water were filtered (Gelman A/E) for pigment analyses; filter pads were stored in polystyrene petri dishes and frozen. All samples were stored in coolers, refrigerated with ice packs, and shipped via overnight delivery to the analytical laboratories. Sample handling and preservation procedures for water samples are presented in Table 4.

Fecal Coliform Bacteria Samples

Grab samples for fecal coliform bacteria enumeration were obtained at all water column and tributary stations. Samples were collected in 300-ml whirl-pak containers and immediately placed on ice in the dark. Samples were delivered to Environmental Quality Laboratory, San Juan, Puerto Rico, for bacterial enumeration within 6 hours of collection.

Sediment-Water Flux Samples

Care was taken to ensure that approximately 2 L of overlying water was retained in each core following collection. Cores were capped, placed in coolers to minimize light exposure and temperature changes, and returned to the field laboratory.

All water samples collected coincident with core collection were stored in cubitainers for transport to the laboratory in coolers. Samples collected in the laboratory during incubations were handled and preserved using procedures identified in Table 5.

4 Analytical Procedures

Water Samples

Laboratory equipment and instruments used for analyses included a Water's HPLC System with an anion column, a Shimadzu UV160 double-beam spectrophotometer, a Shimadzu Carbon Analyzer, an Orion 940 expandable ion analyzer in conjunction with specific-ion-electrode methods, an OIC bench top centrifuge, a Lindberg Blue M Model OV480A drying oven, and various analytical electronic balances. All equipment and instruments were calibrated prior to use, and checked periodically for baseline drift.

Chemical and physical analyses follows standard methods (American Public Health Association 1992); pigment analyses followed methods described by Strickland and Parsons (1972). Specific analytical procedures are listed in Table 6.

Quality Control (QC) included the analysis of 10% of the total number of samples collected. In addition, for each collection set analyzed, blanks, blank spikes and sample spikes were analyzed. If erroneous results occurred with the QC samples, analysis was halted until proper corrective action was taken. When necessary, samples were reanalyzed.

Fecal Coliform Bacteria Enumeration

Fecal coliform bacteria enumeration was performed by the membrane filtration method in accordance with standard methods (American Public Health Association 1992).

Sediment-Water Flux Measurements

Sediment-water material fluxes were measured using short term incubations of intact core samples. Fluxes were estimated based on changes in DO, ammonia, nitrate-nitrite, and phosphate concentrations of water overlying each

core. Specific analytical procedures for estimating these variables are listed in Table 7.

Cores were carefully flushed with approximately 20 L of overlying water in the laboratory. Flushing rates were such that the sediment-water interface remained undisturbed. The cores were then be capped and the overlying water sampled for chemical analyses. A water-filled core (blank) was used to correct for water column changes not related to sediment-water exchanges. Sampling of the cores followed a standard static (batch) protocol with 5 samples equally spaced in time over the 6-hour incubation period.

Incubations were conducted in a circulating water bath in the dark with the exception of samples collected at SJW5/6 and PL9/10, which were also incubated in the light. Light levels for the latter incubations were adjusted to ambient levels (measured in the field at the time of sample collection) using multiple layers of shade cloth. Light levels were continuously monitored during incubation using a LiCor light meter with the underwater sensor located in the incubation chamber.

Thirty-milliliter samples were collected from the overlying water column in each core prior to incubation and at equal intervals throughout the incubation for chemical analyses. An initial 60-ml sample was also withdrawn for determination of dissolved oxygen. Withdrawn water was replaced with an equal volume of bottom water collected at each corresponding sample site.

Flux rates were determined using a regression approach in which the slope of the change in concentration versus time estimates the flux rate. The slope from the "blank" core was subtracted from the slope of each core. The flux, in umols/m²/h was calculated as:

```
(slope - blank slope)(umols/L/min)*60(min/h)*depth(m)*1000(L/m³) where: depth = [total water volume in core (ml)/core area (cm²)]/100(cm/m)
```

If the concentration change during the incubation period was less than 2 times the standard deviation of analyses of standards, the flux was reported as zero. If the concentration was greater than 2 times the standard deviation but the regression was not statistically significant, the flux was reported as non-interpretable. Individual fluxes were calculated for each of three replicate cores and then averaged to yield a mean flux estimate.

5 Data Management

Field and laboratory data were reviewed for completeness and entered into a database. Data files were reviewed by the collecting or analyzing investigator to insure accuracy. Data files were created and stored in three formats; Excel spread sheets, comma-delimited ASCII text and SAS datasets. Resulting data are presented in the following appendices:

Appendix A Sample station locations

Appendix B In situ data for tributary and open-water sampling stations

Appendix C Water chemistry and biological data for tributary and open-water sampling stations

Appendix D Sediment-water flux data

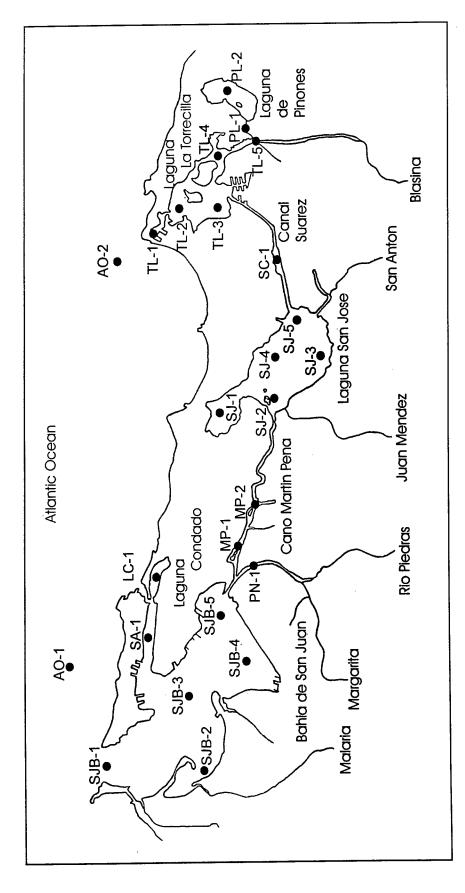
Appendix E QA/QC data for laboratory analyses

Glossary of variable names

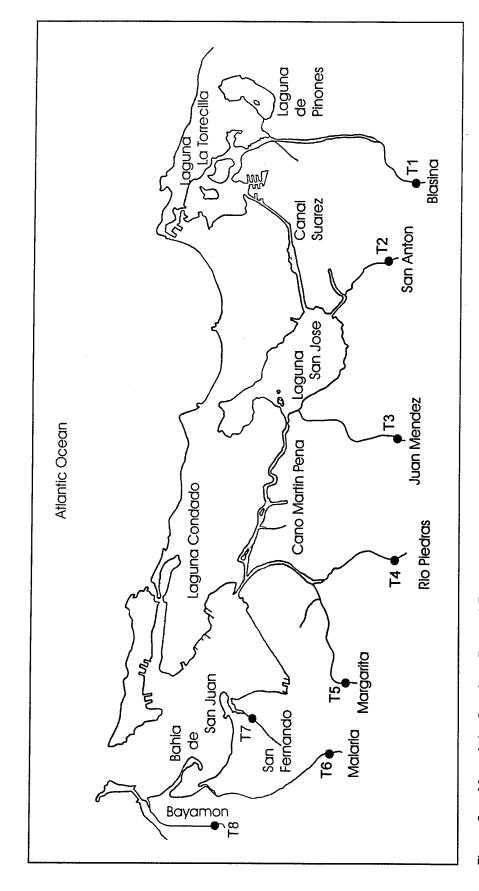
Appendix F

References

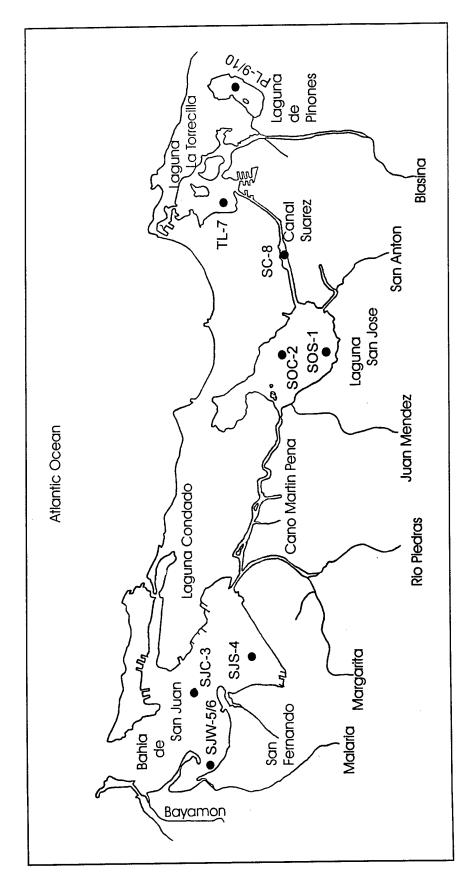
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Map of the San Juan Bay and Estuary system, San Juan, Puerto Rico. Closed circles indicate location of open-water sampling locations Figure 1.



Map of the San Juan Bay and Estuary system, San Juan, Puerto Rico. Closed circles indicate location of tributary water quality sampling locations Figure 2.



Map of the San Juan Bay and Estuary system, San Juan, Puerto Rico. Closed circles indicate location of sediment-water flux sampling locations Figure 3.

Table Tribut	1. ary Water Quality Samplir	ng Locations
ID	Tributary Name	Location
T1	Blasina Canal	Hwy. 3 (65 De Infanteria Ave.), next to Carolina Regional Hospital
T2	Quebrada San Anton	Bustamante Street and Garcilaso Street; Carolina
Т3	Quebrada Juan Mendez	Hwy. 17 (Piñero Ave.); near Balbosa Ave. Exit, Rio Piedras
T4	Rio Piedras	Pascasio Sancerrit Bridge, Notre Dame Street, Rio Piedras
T5	Quebrada Margarita	Ebano Street; Guaynabo
Т6	Malaria Canal	Hwy. 28; Pueblo Viejo; by Fort. Buchanan; Guaynabo
Т7	Quebrada San Fernando	Discharge pipe onto San Juan Bay; Cataño
Т8	Rio de Bayamon	Hwy. 869; Cataño

Table : Water	2. Column Sampling Locations
ID	Station Description
AO1	Atlantic Ocean offshore, west
A02	Atlantic Ocean offshore, east
LC1	Mid Laguna del Condado
MP1	Martin Pena Canal, west end, near highway 22 bridge
MP2	Martin Pena Canal, mid-length, near highway 1 bridge
PL1	Mid-length of canal to Pinones Lagoon
PL2	Central Pinones Lagoon
PN1	Rio Puerto Nuevo Channel
SA1	Mid San Antonio Canal near cruise ship berths
SC1	Suarez Canal, midlength
SJ1	Mid Los Corozos Lagoon
SJ2	West San Jose Lagoon off of Martin Pena Canal
SJ3	South San Jose Lagoon
SJ4	Central San Jose Lagoon
SJ5	East San Jose Lagoon off of Suarez Canal
SJB1	Northwestern San Juan Bay, in channel inside bay entrance
SJB2	Northwestern San Juan Bay, between Bayview and man-made peninsula
SJB3 ,	Central, mid-bay of San Juan Bay
SJB4	Southeastern San Juan Bay, mid-bay south of the airport
SJB5	San Juan Bay near mouth of Martin Pena Canal
TL1	Torrecilla Lagoon inside ocean outlet
TL2	Torrecilla Lagoon northwest of Punta Larga
TL3	Southwest Torrecilla Lagoon
TL4	Torrecilla Lagoon southeast of Punta Mosquitos
TL5	Mouth of Blasina Canal

Table 3. Sediment	-water Flux Sampling Stations	
1D	Station Description	
SJC3	Central San Juan Bay	
SJS4	Southeastern San Juan Bay, mid-bay south of the airport	
SJW5/6	Western San Juan Bay	
S0S1	South San Jose Lagoon	
SOC2	Central San Jose Lagoon	
SC8	Suarez Canal, midlength	
TL7	Southwest Torrecilla Lagoon	
PL9/10	Central Pinones Lagoon	

Table 4. Water Sample Handling and Pr	le Handling a	and Preservation	no		
Sample Matrix	Sample Volume	Sample Container	Analyte	Sample Handling and Preservation	Max. Holding Time
Water	In situ	In situ	Temperature	None	None
Water	In situ	In situ	Hd	None	None
Water	In situ	In situ	Dissolved Oxygen	None	None
Water	In situ	In situ	Conductivity	None	None
Water	250 mL	PPE	Ammonia-N	H ₂ SO₄ to pH<2; refrigerate	48 hours
Water	250 mL	PPE	Nitrate-N	Filter 0.45μ; refrigerate	48 hours
Water	250 mL	Эdd	TKN	H₂SO₄ to pH<2; refrigerate	7 days
Water	250 mL	PPE	Dissolved TKN	Filter 0.45 μ ; H ₂ SO ₄ to pH<2; refrigerate	48 hours
Water	250 mL	PPE	Total Phosphorus	H₂SO₄ to pH<2; refrigerate	48 hours
Water	250 mL	PPE	Total Dissolved Phosphorus	Filter 0.45 μ ; H $_2$ SO $_4$ to pH $<$ 2; refrigerate	48 hours
Water	250 mL	PPE	Total Inorganic Phosphorus	H₂SO₄ to pH<2; refrigerate	48 hours
Water	250 mL	Эдд	Dissolved Inorganic Phosphorus	Filter 0.45μ ; $ extsf{H}_2 extsf{SO}_4$ to pH $<$ 2; refrigerate	48 hours
					(Continued)

.

Table 4. (Concluded)	ncluded)				
Sample Matrix	Sample Volume	Sample Container	Analyte	Sample Handling and Preservation	Max. Holding Time
Water	500 mL	BPE	Volatile Suspended Solids	Refrigerate	2-7 days
Water	500 mL	BPE.	Total Suspended Solids	Refrigerate	2-7 days
Water	500 mL	Amber Glass	Total Organic Carbon	Refrigerate	48 hours
Water	500 mL	Amber Glass	Dissolved Organic Carbon	Filter PC glass filter; refrigerate	48 hours
Water	1000 mL	BPE	Chlorophyll a	Refrigerate; dark	30 days
Water	300 mL	Sterile Whirlpacks	Fecal Coliform	Refrigerate	24 hours
Water	50 mL	Field Analysis	Sulfide*	None	None

Table 5. Sediment-	water Flux	Sample Handli	Table 5. Sediment-water Flux Sample Handling and Preservation		
Sample Matrix	Sample Volume	Sample Container	Analyte	Max. Holding Time	Preservation Method
Water	5 ml	AA vial	Ammonia-N	60 days	Freeze
Water	5 ml	AA vial	Nitrate-N	60 days	Freeze
Water	5 ml	AA vial	Nitrite-N	60 days	Freeze
Water	5 ml	AA vial	Ortho Phosphate	60 days	Freeze
Water	60 ml	60-ml BOD bottle	Dissolved Oxygen	None	None

Table 6. Water Sa	Table 6. Water Sample Analytical Procedures	res				
Sample Matrix	Analyte (Units)	Method	Reference and Procedure	Detection Limit	Estimated Accuracy	Estimated Precision
Water	Temperature (°C)	Hydrolab Reporter / thermistor	APHA 1992 2550-B	0.05°C	±0.15	±0.15
Water	pH (units)	Hydrolab Reporter / electrode	APHA 1992 4500-H*-B	0.01 Units	±0.1	±0.01
Water	Conductivity (µS cm ⁻¹)	Hydrolab Reporter / electrode	APHA 1992 2510-B	0.001 µS cm ⁻¹	±0.015	+1%
Water	Dissolved Oxygen (mg l ⁻¹)	Hydrolab Reporter / electrode	APHA 1992 4500-0-G	0.01 mg l ⁻¹	±0.1	+0.05%
Water	Transparency (cm)	Secchi disk	Carlson 1995	0.1 cm	TBD1	TBD¹
Water	Ammonia-N (mg l ⁻¹)	Specific ion electrode	APHA 1992 4500-NH ₃ - F	0.01 mg l ⁻¹	±0.05	±0.05
Water	Nitrate-N (mg l ⁻¹)	HPLC	APHA 1992 4500-NO ₃ - C	0.01 mg l ⁻¹	±0.1	±0.01
Water	TKN (mg l¹)	Selective ion electrode	APHA 1992 4500-N ₀₉ -B	0.1 mg l ⁻¹	±0.1	±0.1
Water	Dissolved TKN (mg l ⁻¹)	Selective ion electrode	APHA 1992 4500-N _{og} - B	0.1 mg l ⁻¹	±0.1	±0.1
						Sheet 1 of 3

+0.10	H Z.O	Z 1119/111	10200 H	מסיים באומסי	(mg/m³)	
±0.10	± 2.0	2 mg/m³	5310-B APHA 1992	90% Acetone Extract	Carbon (mg F') Chlorophyll a	Water
TBD	ТВБ	0.2 mg l ⁻¹	APHA 1992 5310-B	Combust / IR	Dissolved Organic Carbon (mg l ⁻)	Water
TBD	TBD	0.2 mg l¹	APHA 1992 5310-B	Combust / IR	Total Organic Carbon (mg l¹)	Water
±0.01	± 1.0	1 mg l ⁻¹	APHA 1992 2540 E	Ignited @ 550°C	Volatile Suspended Solids (mg I ⁻¹)	Water
±0.01	± 1.0	1 mg l¹	APHA 1992 2540-D	Dried @ 105°C	Total Suspended Solids (mg l ⁻¹)	Water
±0.01	±0.1	0.02 mg l	APHA 1992 4500-P B.2	Hydrolysis / spectrometry	Dissolved Inorganic Phosphorus (mg l ⁻¹)	Water
±0.01	±0.1	0.02 mg l	APHA 1992 4500-P B.2	Hydrolysis / spectrometry	Total Inorganic Phosphorus (mg l ⁻¹)	Water
± 0.01	±0.1	0.02 mg l	APHA 1992 4500-P B.1	Digest / spectrometry	Total Dissolved Phosphorus (mg l ⁻¹)	Water
+0.01	±0.1	0.02 mg l ⁻	APHA 1992 4500-P B.1	Digest / spectrometry	Total Phosphorus (mg l ⁻¹)	Water
Estimated Precision¹	Estimated Accuracy¹	Detection Limit	Reference and Procedure	Method	Analyte (Units)	Sample Matrix
				Ires	Table 6. Water Sample Analytical Procedures	Table 6. Water Sar
					i	

Table 6. Water Sar	Table 6. Water Sample Analytical Procedures	res				
Sample Matrix	Analyte (Units)	Method	Reference and Procedure	Detection Limit	Estimated Accuracy¹	Estimated Precision¹
Water	Fecal Coliform (MPN/100 ml)	Membrane filter	APHA 1992 9222 D			
Water	Sulfide (mg l ⁻¹)	Spectrometry Field Kit	APHA 1992 4500-S²-D	0.5	ТВО	TBD
						Sheet 3 of 3

¹TBD indicates that sufficient data for an estimate have not yet been gathered by the LAERF laboratory to make estimates. Goals for accuracy and precision are those indicated in American Public Health Association (1992; APHA)

Table 7.	Table 7. Sediment-Water Flux Analytical Procedures	Procedures				
Sample Matrix	Analyte (Units)	Method	Reference	Detection Limit	Estimated Accuracy	Estimated Precision *
Water	Dissolved Oxygen	Polarigraph electrode	АРНА, 1992	0.01 mg /l	0.01 mg/l	0.005mg/l
Water	Ammonia-N	Colorimetric	Solorzano, 1969	0.05 ug-at/l	0.15 ug-at/l	0.08/(n(.5))
Water	Nitrate-N	Colorimetric	Strickland and Parsons, 1972	0.05 ug-at/l	0.10 ug-at/l	0.5/(n(.5))
Water	Nitrite-N	Colorimetric	Strickland and Parsons, 1972	0.05 ug-at/l	0.025 ug-at/l	0.03/(n(.5))
Water	Ortho Phosphate	Colorimetric	Strickland and Parsons, 1972	0.05 ug-at/l	0.03 ug-at/l	0.03/(n(.5))

Where n = number of replicate samples analyzed

Appendix A Sample Station Locations

Table A1 Water Co		ple Station	Locations			
Station	LATDIR	LATDEG	LATMIN	LONDIR	LONDEG	LONMIN
AO-1	N	18	28.9	W	66	6.5
AO-2	N	18	28.03	W	. 65	59.96
SJB-1	N	18	28.18	W	66	7.73
SJB-2	N	18	26.77	W	66	7.94
SJB-3	N	18	26.8	W	66	6.59
SJB-4	N	18	26.33	W	66	6.32
SJB-5	N	18	26.63	W	66	5.35
SA-1	N	18	27.61	W	66	5.88
LC-1	N	18	27.26	W	66	4.56
PN-1	N	18	26.1	W	66	4.66
MP-1	N	18	26.23	W	66	4.34
MP-2	N	18	25.95	W	66	3.71
SJ-1	N	18	26.46	W	66	2.17
SJ-2	N	18	25.72	W	66	2.11
SJ-3	N	18	25.07	W	66	1.58
SJ-4	N	18	25.61	W	66	1.47
SJ-5	N	18	25.42	W	66	0.71
SC-1	N	18	25.62	W	65	59.91
TL-1	N	18	27.5	W	65	59.62
TL-2	N	18	27.03	W	65	59.01
TL-3	N	18	26.61	W	65	59.11
TL-4	N	18	26.47	W	65	58.25
TL-5	N	18	25.97	W	65	58.03
PL-1	N	18	26.06	W	65	57.89
PL-2	N	18	26.34	W	65	57.21

Table A2	01						
Sedimen	t-water Flu	x Sample S	Sediment-water Flux Sample Station Locations	tions			
Station	LATDIR	LATDEG	LATMIN	LONDIR	LONDEG	LONMIN	INCUB
SOS-1	Z	18	24.9	Μ	99	98.0	Dark
SOC-2	z	18	25.78	Μ	99	1.46	Dark
SJC-3	z	18	26.92	Μ	99	6.62	Dark
SJS-4	z	18	26.06	Μ	99	6.45	Dark
SJW-5	z	18	26.76	Μ	99	7.93	Light
9-MCS	Z	18	26.76	M	99	26.7	Dark
TL-7	z	18	26.52	Μ	99	59.05	Dark
8C-8	z	18	25.63	Μ	99	2.63	Dark
PL-9	Z	18	26.24	M	99	57.27	Light
PL-10	z	18	26,24	۸	9	57.27	Dark

Appendix B In Situ Data for Tributary and **Open-water Sampling Stations**

Table B1	18													
In Sit	u Dat	a fo	ΓW	ater (Solu	E E	Samplin	n Situ Data for Water Column Sampling Stations	SL					
Station	Month	Day	Year	Round	Rep	Split	Station Month Day Year Round Rep Split Depth (m)	Secchi (m) Temp (C) pH (STD) DO (mg/L)	Temp (C)	(STD)	DO (mg/L)	Salinity (ppt)	Sulfide (mg/L)	Time
A0-1	9	26	36	1	-	-	0.5	20.8	28.42	8.35	6.16	37.8	-	804
A0-1	9	26	92	1	1	1	10	20.8	28.02	8.36	6.28	37.8		804
A0-1	9	26	95	-	1	-	20.8	20.8	28	8.35	6.17	37.9		804
A0-2	9	56	92	1	٦	-	0.5	16.5	28.17	8.31	5.76	37.9		750
A0-2	9	56	92	1	-	1	8	16.5	27.98	8.35	60'9	37.9		750
A0-2	9	26	92	ļ	-	-	16.4	16.5	27.94	8.33	5.84	37.9		750
LC-1	9	29	92	1	-	1	0.5	2.3	30.34	8.28	5.46	37.1		1051
LC-1	9	59	92	1	1	1	1	2.3	30.33	8.28	5.45	37.1		1051
LC-1	9	29	92	-	-	-	2	2.3	30.27	8.28	5.35	37.2		1051
LC-1	9	29	92	-	-	1	3	2.3	30.08	8.27	4.96	37.1	•	1051
LC-1	9	29	92	-	1	1	4	2.3	29.95	8.24	4.54	37.2		1051
LC-1	9	29	92	-	1	-	5	2.3	29.98	8.24	4.6	37.1		1051
LC-1	9	29	92	-	-		9	2.3	29.86	8.16	3.57	37.2	•	1051
LC-1	9	59	92	-	1	-	7	2.3	29.76	8.02	1.06	37.1		1051
LC-1	9	29	92	-	-	1	8.2	2.3	29.48	7.93	0.04	37.2		1051
MP-1	9	27	92	-	-	-	0.5	9.0	31.04	8.15	8.03	19.4		1030
MP-1	9	27	92	-	-	1	1	9.0	30.12	8.14	2.41	35.6		1030
MP-1	9	27	92	-	-	-	2	9.0	28.97	7.87	0.07	36.9		1030
													Sheet 1 of 23	1 of 23

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Time	1030	1050	1050	1050	1050	1050	1100	1100	1041	1041	955	955	955	1130	138	1130	1130	1130	1130	1130	1130	932	932	935	935	2 of 2
Sulfide (mg/L)	٠	12	12	12	12	12	٠	•	2	5			•	•		·			٠			·			,	Sheet 2 of 23
Salinity (ppt)	37	25.5	35.3	36.7	36.9	37	28.4	29.7	28.8	28.8	33.5	36.4	36.7	37.5	37.5	37.6	37.7	37.6	37.7	37.5	37.7	15	15.4	24.7	28.2	
DO (mg/L)	0.52	9.24	2.01	0.04	0.07	0.79	3.06	3.09	5.43	5.02	1.03	2.35	2.09	9.78	8.76	5.06	3.86	3.63	3.15	2.5	2.23	6.82	6.02	4.18	2.03	
pH (STD)	7.81	8.18	8.16	7.23	7.49	7.52	8.05	8.01	8.64	8.61	7.92	8	7.97	8.51	8.5	8.28	8.22	8.19	8.17	8.12	8.11	8.2	8.19	8.08	7.88	
Temp (C)	28.88	31.89	30.32	28.91	28.62	28.62	32.08	32	31.91	31.74	29.94	29.31	29.04	29.46	29.31	28.7	28.54	28.47	28.44	28.35	28.35	31.25	31.11	31.77	31.24	
Secchi (m)	9.0	0.4	0.4	0.4	0.4	0.4	0.4	9.4	0.2	0.2	0.8	0.8	0.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	
Rep Split Depth (m)	3	0.5	-	2	8	3.5	0.5	-	0.5	-	0.5	-	2	0.5	2	4	9	8	10	12	12.4	0.5	-	2	٣	
Split	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ŀ	-	Ŀ	
	Ŀ	-	F	-	-	Ŀ	<u> -</u>	-	-	-	-	_	Ŀ	Ŀ	-	-	Ŀ	-	-	-	-	-	<u> </u> -	上	L	-
Year Round	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	Ŀ	<u> </u> -	<u> -</u>	-	-	L	-	-	r	Ŀ	
		95	95	95	95	95	95	95	95	95	95	95	95	╄	95	95	+-	╄	4-	95	95	95	4-	+	4	-1
Day	27	27	27	27	27	2	28	28	28	28	27	2	27	36	26	26	28	26	26	26	78	78	3	1 8	٦	4
Month	9	۳	ی ا	٥	9	٥	9 6	٥	۵	۰	9	٥	٥	ď	9	g	ع ا	۳	٥	۵	۵	۳	ی ر	٥	٥	
Station Month Day	MP-1	MP-2	MP-2	MP-2	MP-2	MP.2	1 -	<u> </u>	2	2 19	P. Y	PN-1	N N	SA-1	SA-1	7	7	\$4.1	SA-1	SA-1	SA-1	3	3 2	ا ا	2 2	

Year Round	ound Rep	岁	Spli	Rep Split Depth (m)	Secchi (m) Temp (C)	Temp (C)	pH (STD)	pH (STD) DO (mg/L)	Salinity (ppt)	Sulfide (mg/L)	Time
28 95 1 1 1 4	1 1 1 4	1 1 4	4		1.2	31.03	7.76	0.12	28.6		935
28 95 1 1 1 5			2	_	1.2	30.91	7.83	0.02	29.2		935
			9		1.2	29.74	7.29	0.03	31		935
-	1 1 1 7	1 1 7	7		1.2	29.23	7.18	0.04	31.2		935
-	1 1 8	1 1 8	8		1.2	28.99	7.13	0.05	31.4		935
-	1 1 8.8	1 8.8	8.8	┪	1.2	28.87	7.12	0.14	31.4		935
-	1 1 1 0.5	1 1 0.5	0.5	\neg	0.8	30.63	8.37	6.18	13.5		755
-	1	-			0.8	30.65	8.35	6.17	13.5	•	755
-+	1 1 1 2	1 2	2	コ	0.8	31.73	99.2	1.3	16		755
-	1 1 1 0.5	1 0.5	0.5	寸	-	30.73	8.07	4.77	13.3		825
-		-	-		1	30.69	8.1	4.6	13.6		825
-	1		0.5		1.6	31.2	8.34	5.92	13.8		840
-		-			1.6	31.2	8.33	5.72	13.8		840
-	1 1 2	1 2	2	_	1.6	31.61	7.76	4.68	15		840
4	-	4	0.5	\dashv	0.8	30.91	8.56	7.58	14.1		855
95 1 1 1		-		7	0.8	30.83	8.55	7.29	14		855
-	1 1 1 2	1 2	2	7	0.8	30.95	8.22	4.13	14.8		855
-	-	1 0.5	0.5		1.3	30.79	8.48	7.68	41		910
95 1 1 1	1 1 1	-	-	7	1.3	30.77	8.45	6.35	14.1		910
95 1 1 1	-	-	2	寸	1.3	31.94	7.77	2.13	17.2		910
-	-	-	က	7	1.3	31.44	7.73	0.85	26.5		910
-	1 1 4	1 4	4	┪	1.3	30.22	7.15	0.01	28.7		910
-	1 1 5	1 2	2	\dashv	1.3	29.56	7.09	0.28	29.2		910
	1 1 6	1 6	9	\dashv	1.3	29.44	7.08	0.03	29.5		910
28 95 1 1 1 6.8				\exists	1.3	29.29	7.11	0.37	30		910
										Sheet 3 of 23	of 23

a .											_	ی	25	2	2	2	2	2	-1	-	-	-	رعا	D.	Z.	<u></u>
Time	806	908	806	806	908	806	908	908	940	940	940	1005	1005	1005	1005	1005	1005	1005	1031	1031	1031	1031	1055	1055	1055	4 of 2
Sulfide (mg/L)			٠			•	٠	•			•	0	0	0	0	0	0	0	•	•	•	٠	•	•	•	Sheet 4 of 23
Salinity (ppt)	37.3	37.6	2.78	37.6	37.6	2.78	37.7	37.7	36.5	36.7	37.4	37.3	37.5	37.6	37.6	37.6	37.7	37.7	37.3	37.2	37.3	37.3	36.7	36.7	37.5	
DO (mg/L)	5.92	6.02	9	26'9	6.04	26.93	5.89	5.86	5.85	5.82	4.38	7.39	7.59	6.78	5.58	5.15	4.62	3.58	11.5	11.13	5.46	5.34	11.68	11.5	6.05	
pH (STD)	98.8	8.37	98.36	8.35	8.36	8.35	8.35	8.34	8.39	8.39	8.28	8.43	8.44	8.41	8.34	8.31	8.28	8.2	8.56	8.56	8.3	8.29	8.59	9.8	8.36	
Temp (C)	31.18	29.34	28.42	28.27	28.98	28.35	28.03	28	30.59	30.56	29.98	30.15	29.27	29.01	28.81	28.59	28.46	29.29	30.22	30.2	29.32	29.13	30.14	30.12	29.03	
Secchi (m)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.6	1.6	1.6	
Depth (m)	0.5	2.5	4.5	6.5	8.5	10.5	12.5	14.5	0.5	1	1.8	0.5	2	4	9	8	10	11.6	0.5	1	2	2.5	0.5	ı	3	
Split	1	1	ı	ı	ŀ	-	-	-	1	-	1	-	-	١	1	-	-	ı	-	-	-	-	-	_	-	
Rep	ı	1	ı	ı	-	-	-	-	-		-	٦	-	-	٦	_	Ŀ	-	-	-	_	-	-	-	-	
Round	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	٦	1	-	-	-	-	
Year	92	98	92	92	92	92	95	92	95	95	95	95	98	95	92	95	92	92	92	92	92	92	98	92	92	
Day	26	26	26	26	56	26	26	26	26	26	26	56	26	26	26	26	26	26	26	26	26	56	26	26	26	
Month	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	ø	9	9	9	9	
Station Month Day Year Round	SJB-1	SJB-2	SJB-2	SJB-2	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4	SJB-5	SJB-5	SJB-5														

Appendix B

8.35 5.62 37.6 8.29 4.55 37.7 8.24 5.25 37.6 8.39 3.42 37.6 8.19 3.42 37.6 8.24 5.25 35.3 8.3 5.81 37.5 8.29 5.81 37.5 8.29 5.83 37.7 8.23 5.81 37.5 8.23 4.81 32.2 8.24 5.14 32.3 8.23 4.74 32.3 8.24 5.14 32.3 8.25 6.03 35.6 7.86 0.04 36.1 7.27 0.04 36.3 7.15 0.05 36.3 7.15 0.05 36.3 7.16 0.07 36.3 7.18 0.05 36.3 7.19 4.58 19.6 7.14 0.07 36.3 7.98 4.58 19.6 7.98 4.58 19.6 8.02 2.4 32.7 1	Station	Month	Day Y	ear H	puno	Rep	Split	Denth (m)		Toma (C)	╙				
6 6 26 95 1 1 7 1 9 1 9 1 1 9 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3	SJB-5	9	26.	r,	1.	Ţ					_	DO (mg/L)	Salinity (ppt)	Sulfide (mg/L)	Time
No. No.	2 0 0	,	┩-	;	-†.	- [-	c	1.6	28.72	8.35	5.62	37.6		1055
5 6 26 96 1 1 9 1.6 28.23 8.12 3.76 3.76 3.76 6 26 96 1 1 1 1 1 1 28.33 8.13 3.42 37.6 37.6 6 26 95 1 1 1 1 28.30 8.33 5.81 37.6 37.6 6 26 95 1 1 1 28.30 8.33 5.81 37.4 7.7 6 26 95 1 1 1 28.44 8.29 5.81 37.7 7.7 6 29 95 1 1 1 28.44 8.23 5.11 32.7 7.7 6 29 95 1 1 1 28.44 8.24 8.24 37.7 8.74 6 29 95 1 1 1 0.5 29.58 8.24 8.24 </td <td>2 2</td> <td>٥</td> <td>4</td> <td>ន្តា</td> <td>- </td> <td>- </td> <td>-</td> <td>_</td> <td>1.6</td> <td>28.54</td> <td>8.29</td> <td>4.55</td> <td>37.7</td> <td></td> <td>1055</td>	2 2	٥	4	ន្តា	-	-	-	_	1.6	28.54	8.29	4.55	37.7		1055
5 6 26 95 1 1 10.9 1.6 28.23 8.19 3.42 37.6 37.6 6 26 95 1 1 1 1 29.01 8.24 5.25 35.3 37.4 6 26 95 1 1 1 1 28.44 8.29 5.81 37.4 6 26 95 1 1 1 2 28.44 8.29 5.83 37.4 6 26 95 1 1 1 2 28.44 8.29 5.83 37.7 6 29 95 1 1 1 0.7 29.68 8.23 4.81 37.4 6 29 95 1 1 1 0.7 29.83 8.17 4.81 37.4 6 29 95 1 1 1 0.7 29.83 8.74 </td <td>2.B-5</td> <td>۵</td> <td>-</td> <td>32</td> <td>- </td> <td>-</td> <td>-</td> <td>6</td> <td>1.6</td> <td>28.23</td> <td>8.22</td> <td>3.78</td> <td>37.6</td> <td></td> <td>1055</td>	2.B-5	۵	-	32	-	-	-	6	1.6	28.23	8.22	3.78	37.6		1055
6 26 96 1 1 0.5 1 29.01 8.24 5.25 35.3	SJB-5	٥	-	32	-	-	-	10.9	1.6	28.23	8.19	3.42	37.6		1055
6 26 96 1 2 8.43 5.83 5.83 5.74 8.75 <		ဖ	_	35	-	1	1	0.5	-	29.01	8.24	5.25	35.3	•	715
6 26 96 1 1 2 1 28.44 8.29 5.8 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4 37.4	1	9	_	35	1	-	-	-	-	28.36	8.3	5.81	37.5		11.5
6 26 96 1 1 3 1 28.44 8.3 5.83 37.7 6 26 96 1 1 3.2 1 28.42 8.23 5.11 32.2 6 29 95 1 1 1 0.5 0.7 29.68 8.23 6.11 32.2 6 29 95 1 1 1 0.7 29.68 8.23 4.81 32.2 6 29 95 1 1 1 0.7 29.68 8.23 4.74 32.2 8.24 8.24 8.24 8.24 8.23 8.14 8.23 8.23 8.23 8.24 8.23 8.24 8.24 8.24 8.24 8.24 8.23 8.23 8.23 8.23 8.23 8.23 8.23 8.24 8.24 8.24 8.24 8.24 8.24 8.24 8.23 8.23	1	9		35	-	-	-	2	_	28.44	8.29	2.8	37.4		2 1
6 26 26 26 1 1 3.2 1 28.42 8.23 5.79 37.6 6 29 95 1 1 0.5 0.7 29.58 8.23 5.11 32.2 6 29 95 1 1 1 0.7 29.68 8.23 5.14 32.4 6 29 95 1 1 1 0.7 29.68 8.23 4.74 32.3 6 29 95 1 1 1 0.8 29.58 8.23 4.74 32.3 6 29 95 1 1 1 0.8 29.58 8.23 4.74 32.3 6 29 95 1 1 1 0.8 29.58 8.23 8.17 34.2 6 29 95 1 1 1 2 0.6<	듿	9	_	35	-	F	-	6	-	28.44	833	5 83	37.7		1.5
6 29 95 1 1 0.5 0.7 29.58 8.23 5.11 37.0 6 29 95 1 1 1 0.5 29.83 8.23 4.81 32.2 6 29 95 1 1 1 1 0.7 29.83 8.23 4.81 32.4 8.24 8.23 9.37 4.81 32.4 9.27 9.23 9.23 9.23 9.23 9.23 9.23 9.24	TL-1	9	_	2(-	-	-	3.2	-	28.42	8 27	5 70	27.6		2
6 29 95 1 1 1 1 1 1 1 1 1 1 20.70 29.68 8.23 4.81 32.24 32.24 6 29 95 1 1 1 0.0 29.68 8.24 5.14 32.4 7 6 29 95 1 1 1 0.0 29.58 8.24 5.14 32.3 6 29 96 1 1 1 0.0 8 29.58 8.24 5.14 32.5 6 29 96 1 1 1 0.0 8 29.58 8.14 32.5 8 6 29 95 1 1 1 0.0 30.69 30.69 8.04 31.7 28.6 6 29 95 1 1 4 0.6 29.58 7.27 0.04 36.3 6 29 95 1	TL-2	9	┡	5	-	-	-	0.5	20	20 50	56.0		37.0		13
6 29 95 1 1 0.7 29.63 8.23 4.81 32.4 6 29 95 1 1 1.3 0.7 29.63 8.13 4.81 32.4 6 29 95 1 1 1 0.5 0.8 29.54 8.24 5.14 32.3 6 29 95 1 1 1 0.5 0.8 29.58 8.23 4.74 32.3	71.2	ď	╄	ڀ	-	1-	1.			23.30	6.23	5.11	32.2		855
6 29 95 1 1 1.3 0.7 29.83 8.17 4.62 34.7 6 29 95 1 1 1 0.5 0.8 29.54 8.24 5.14 32.3 6 29 95 1 1 1 1 0.8 29.58 8.16 3.42 32.5 6 29 95 1 1 1 0.5 0.6 29.58 8.16 3.42 32.5 6 29 95 1 1 1 0.6 29.92 7.86 0.03 35.6 6 29 95 1 1 1 2 0.6 29.52 7.27 0.04 36.3 6 29 95 1 1 1 4 0.6 27.75 7.27 0.04 36.3 6 29 1 1 1 1	, c	, ,	4	1,	.†.	-†.	-	-);o	29.6	8.23	4.81	32.4	•	855
6 29 95 1 1 0.5 0.8 29.54 8.24 5.14 32.3 6 29 95 1 1 1 0.8 29.58 8.23 4.74 32.5 6 29 95 1 1 1 0.5 0.6 30.69 8.16 3.42 32.5 6 29 95 1 1 1 0.5 0.6 29.92 7.86 0.03 35.6 6 29 95 1 1 1 4 0.6 29.92 7.27 0.04 36.3 6 29 95 1 1 1 4 0.6 27.75 7.27 0.04 36.3 6 29 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<	7	۰	4	-	_	-1	-†	.:3	0.7	29.83	8.17	4.62	34.7		855
6 29 95 1 1 1 0.8 29.58 8.23 4.74 32.5 Holosome 6 29 95 1 1 1.2 0.8 30.69 8.16 3.42 34.2 9.2 6 29 95 1 1 1 2 0.6 29.92 7.86 0.03 35.6 9.2 6 29 95 1 1 1 4 0.6 29.92 7.86 0.04 36.1 9.2 6 29 95 1 1 1 4 0.6 29.58 7.92 0.04 36.3 9.2 6 29 95 1 1 1 4 0.6 27.18 7.27 0.04 36.4 9.24 6 29 95 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td< td=""><td>2</td><td>٥</td><td>4</td><td>اي</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td>29.54</td><td>8.24</td><td>5.14</td><td>32.3</td><td></td><td>820</td></td<>	2	٥	4	اي	-	-	-			29.54	8.24	5.14	32.3		820
6 29 95 1 1.2 0.8 30.08 8.16 3.42 34.2 34.2 6 29 95 1 1 1. 0.5 0.6 30.69 8.04 3.17 28.6 6 29 95 1 1 1 2 0.6 29.92 7.86 0.03 35.6 6 29 95 1 1 1 4 0.6 29.58 7.27 0.04 36.3 6 29 95 1 1 1 6 0.6 27.75 7.27 0.04 36.4 6 29 95 1 1 1 10 0.6 27.13 7.18 0.04 36.3 6 29 95 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	٥	-	اي	-	-	-	-	9.0	29.58	8.23	4.74	32.5		820
6 29 95 1 1 0.5 0.6 30.69 8.04 3.17 28.6 3.6 6 29 95 1 1 2 0.6 29.92 7.86 0.03 35.6 35.6 6 29 95 1 1 4 0.6 29.58 7.27 0.04 36.1 36.1 6 29 95 1 1 1 6 0.6 27.75 7.27 0.04 36.3 7.24 6 29 95 1 1 1 8 0.6 27.13 7.18 0.04 36.4 6 29 95 1 1 1 10 0.6 27.13 7.18 0.05 36.4 6 29 95 1 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 1 1 <td>11-3</td> <td>٥</td> <td>_</td> <td>١</td> <td>-</td> <td>-</td> <td>-</td> <td>1.2</td> <td>8.0</td> <td>30.08</td> <td>8.16</td> <td>3.42</td> <td>34.2</td> <td></td> <td>0,00</td>	11-3	٥	_	١	-	-	-	1.2	8.0	30.08	8.16	3.42	34.2		0,00
6 29 95 1 1 2 0.6 29.92 7.86 0.03 35.6 6 29 95 1 1 4 0.6 29.92 7.87 0.04 35.7 6 29 95 1 1 4 0.6 27.75 7.27 0.04 36.3 6 29 95 1 1 1 8 0.6 27.13 7.18 0.04 36.3 6 29 95 1 1 1 10 0.6 27.13 7.18 0.04 36.3 6 29 95 1 1 1 12 0.6 27.13 7.18 0.05 36.4 6 29 95 1 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 </td <td>TL-4</td> <td>9</td> <td>_</td> <td>2</td> <td>_</td> <td>1</td> <td>-</td> <td>0.5</td> <td>0.6</td> <td>30.69</td> <td>8.04</td> <td>3 17</td> <td>28.6</td> <td></td> <td>3,5</td>	TL-4	9	_	2	_	1	-	0.5	0.6	30.69	8.04	3 17	28.6		3,5
6 29 95 1 1 4 0.6 29.58 7.92 0.04 36.1 6 29 95 1 1 4 0.6 27.75 7.27 0.04 36.3 6 29 95 1 1 1 6 27.75 7.73 0.04 36.3 6 29 95 1 1 1 0.6 27.13 7.18 0.04 36.3 6 29 95 1 1 1 12 0.6 27.13 7.18 0.05 36.4 6 29 95 1 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 1 0.4	TL-4	9	—	5	-	-	-	2	9.0	29.92	7 86	000	25.0		740
6 29 95 1 1 6 0.6 27.75 7.27 0.04 36.1 6 29 95 1 1 1 8 0.6 27.75 7.27 0.04 36.3 6 29 95 1 1 1 0.6 27.13 7.18 0.04 36.3 6 29 95 1 1 1 12 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 0.4 33.05 7.98 4.58 19.6 7 1 1 1 1 1	TL-4	9	ļ	2	-	-	-	4	90	20 50	7 02		23:0		740
6 29 95 1 1 8 0.6 27.75 7.27 0.04 36.3 6 29 95 1 1 10 0.6 27.13 7.18 0.04 36.3 6 29 95 1 1 1 10 0.6 27.1 7.15 0.05 36.4 6 29 95 1 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 33.05 7.38 4.58 19.6 6 28 95 1 1 1 0.4 33.05 7.98 4.58 19.6 7 1 1 1 1 0.4 31.96 8.02 2.4 32.7	4-17	ď	╄	1,,	 	t.	1.	,	2 3	22:32	7:37	40.04	36.1		740
6 29 95 1 1 8 0.6 27.38 7.23 0.04 36.4 36.4 36.4 36.4 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.4 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 36.3 37.3 36.3 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7 36.4 37.7		, ,	4	, ,	+	-	+	•	9.6	27.75	7.27	0.04	36.3		740
6 29 95 1 1 10 0.6 27.13 7.18 0.04 36.3 6 29 95 1 1 12 0.6 27.1 7.15 0.05 36.4 6 28 95 1 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 0.5 0.4 33.05 7.98 4.58 19.6 6 28 95 1 1 1 1 0.4 33.05 7.98 4.58 19.6 7 3 3 3 3 3 3 3 3 3 3	; ;	╅	_	1	_	_	-	8	9.0	27.38	7.23	0.04	36.4		740
6 29 95 1 1 12 0.6 27.1 7.15 0.05 36.4 6 29 95 1 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 0.5 0.4 33.05 7.98 4.58 19.6 6 28 95 1 1 1 1 0.4 31.96 8.02 2.4 32.7 Sheet 5	1-4	+	_		_	_	-	2	9.0	27.13	7.18	0.04	36.3		740
6 29 95 1 1 13.5 0.6 27.1 7.14 0.07 36.3 6 28 95 1 1 1 0.5 0.4 33.05 7.98 4.58 19.6 6 28 95 1 1 1 1 1 1 31.96 8.02 2.4 32.7 Sheet 5	4	\dashv	-	<u></u>		ᅴ	-	12	9.0	27.1	7.15	0.05	36.4		740
6 28 95 1 1 1 0.5 0.4 33.05 7.98 4.58 19.6 6 28 95 1 1 1 1 1 0.4 31.96 8.02 2.4 32.7 Sheet 5	4	7		١	_	_	-	13.5	9.0	27.1	7.14	0.07	36.3		2 2
6 28 95 1 1 1 1 0.4 31.96 8.02 2.4 32.7 Sheet 5	r.5	7		_	_		-	0.5	0.4	33.05	7.98	4.58	19.6		1 20
Sheet 5 of 23	1-6	\dashv	_		_	ㅓ	\exists	-	0.4	31.96	8.02	2.4	32.7		1120
														Sheet 5	of 23

Sulfide (mg/L) Time	. 1120	. 840	. 840	. 840	. 800	800	. 800	1245		. 1245	1245	1245 1245 1245	. 1245 . 1245 . 1245 . 1245	1245 1245 1245 1245 1245	1245 1245 1245 1245 1245	. 1245 . 1245 . 1245 . 1245 . 1245	. 1245 . 1245 . 1245 . 1245 . 1245 . 1245	. 1245 . 1245 . 1245 . 1246 . 1246 . 1246 . 950	. 1245 . 1245 . 1245 . 1245 . 1245 . 1245 . 950	1245 1245 1245 1245 1246 1246 1246 1246 1246 1246 1246 1246	. 1245 . 1245 . 1245 . 1245 . 1245 . 1246 . 950 . 950 . 950					
													0 0 0	3 3				2 2 1 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	2 2 1 1 2 2 2 4 9 9	2 2 1 1 1 1 2 2 2 4 4 4 9 9 9 9	2 2 4 9 6 4	3 4 4 7 2 2 1 1 1 2 2 3 3 4 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2	2 2 1 1 2 2 3 4 4 9 8 4 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1	2 2 1 1 1 1 2 2 2 1 1 1 1 2 2 3 3 3 3 3
Salinity (ppt)	34.3	36.6	36.6	36.6	36.5	36.7	36.6	35.9	36	30	36.2	36.2	36.2 36.2 36.1	36.2 36.2 36.1 36.1	36.2 36.2 36.1 36.1	36.2 36.2 36.1 36.1 36.1	36.2 36.2 36.2 36.1 36.1 36.2	36.2 36.2 36.2 36.1 36.1 36.1 36.2 37.3 34.4	36.2 36.2 36.1 36.1 36.1 36.2 30.7 37.4 37.4	36.2 36.2 36.1 36.1 36.1 36.1 37.2 37.2 37.2 37.3 37.3 37.3 37.3 37.3	36.2 36.2 36.2 36.1 36.1 36.1 36.2 36.2 37.4 37.4 31.4 31.4	36.2 36.2 36.2 36.1 36.1 36.1 36.2 36.2 37.7 37.4 31.4 31.4	36.2 36.1 36.1 36.1 36.2 30.7 30.7 31.4 31.4 31.4 31.4 31.4 31.4 31.4 31.4	36.2 36.1 36.1 36.1 36.1 36.2 30.7 31.4 31.4 31.4 31.4 31.4 31.4 31.4 31.4	36.2 36.1 36.1 36.1 36.1 36.2 36.2 37.4 37.4 37.4 37.3 37.3 37.3 37.3 37.3	36.7 36.1 36.1 36.1 36.1 36.2 36.2 36.2 37.2 37.2 37.2 37.2 37.2 37.2 37.2 37
Temp (C) pH (STD) DO (mg/L)	0.89	6.08	5.97	5.87	6.2	6.2	6.07	9.9	69.9		6.57	6.57	6.57 6.11 5.34	6.57 6.11 5.34 4.81	6.57 6.11 5.34 4.81	6.57 6.11 5.34 4.81 4.37 3.17	6.57 6.11 5.34 4.81 4.37 3.17	6.57 6.11 5.34 4.81 4.37 3.17 3.17	6.57 6.11 5.34 4.81 4.37 3.17 3.17 4.61 1.12	6.57 6.11 5.34 4.81 4.37 3.17 3.17 1.12 1.12	6.57 6.11 5.34 4.81 4.37 3.17 3.17 3.17 1.12 1.12	6.57 6.11 6.11 5.34 4.81 4.37 3.17 3.17 3.17 1.12 1.12	6.57 6.11 6.11 4.81 4.37 3.17 3.17 4.61 1.12 1.12 1.7 1.5	6.57 6.11 6.11 7.34 4.81 4.37 3.17 3.17 4.61 1.12 1.7 1.7 2.47 0.02	6.57 6.11 6.11 6.11 4.81 4.37 3.17 3.17 4.61 1.12 1.7 1.7 2.47 0.03	6.57 6.11 6.11 7.34 4.37 3.17 3.17 4.61 1.12 1.7 1.7 2.47 0.03 0.04 2.14
pH (STD)	7.86	8.43	8.42	8.42	8.42	8.42	8.41	8.42	8.42		8.41	8.39	8.41 8.39 8.35	8.41 8.39 8.35 8.31	8.39 8.35 8.35 8.31 8.29	8.39 8.35 8.35 8.31 8.29 8.23	8.39 8.35 8.31 8.29 8.23 7.86	8.41 8.39 8.35 8.31 8.29 8.23 7.86	8.41 8.35 8.35 8.31 8.29 8.23 7.86 8.25 8.25	8.39 8.35 8.31 8.31 8.29 8.23 7.86 8.01 8.01	8.41 8.35 8.31 8.29 8.23 7.86 8.25 8.01 8.1	8.41 8.35 8.31 8.29 8.23 7.86 8.25 8.01 8.17 7.92	8.41 8.39 8.31 8.29 8.23 7.86 8.25 8.01 8.01 7.92 7.92	8.41 8.39 8.31 8.29 8.23 7.86 8.01 8.01 8.01 7.92 7.92 7.97	8.41 8.39 8.35 8.29 8.23 7.86 8.01 8.01 8.01 7.92 7.92 7.97 7.97	8.41 8.39 8.35 8.29 8.23 7.86 8.01 8.01 8.01 7.92 7.92 7.97 7.92 7.43
Temp (C)	31.46	28.25	28.15	28.02	28.29	28.02	27.98	31.73	31.05		30.14	30.14	30.14 30.04 29.76	30.14 30.04 29.76 29.58	30.14 30.04 29.76 29.58 29.5	30.14 30.04 29.76 29.58 29.5 29.5	30.14 30.04 29.76 29.58 29.5 29.5 29.5	30.14 30.04 29.76 29.58 29.5 29.5 29.5 29.68 29.68	30.14 30.04 29.76 29.58 29.5 29.6 29.68 29.68 29.48	30.14 30.04 29.76 29.58 29.5 29.68 29.48 29.32 29.32	30.14 30.04 29.76 29.58 29.5 29.5 29.48 29.48 29.32 29.32 29.15	30.14 30.04 29.76 29.58 29.5 29.6 29.48 29.32 29.32 29.32 29.32 29.33	30.14 30.04 29.76 29.58 29.5 29.68 29.48 29.32 29.32 29.32 29.32 29.32 29.32 29.32	30.14 30.04 29.76 29.58 29.5 29.68 29.48 29.48 29.32 29.15 29.15 29.15 29.15 29.15 29.15 29.27 29.27	30.14 30.04 29.76 29.58 29.68 29.68 29.48 29.32 29.15 29.15 29.98 30 29.27 29.27 29.27 29.89	30.14 30.04 29.76 29.58 29.68 29.68 29.48 29.32 29.32 29.35 29.98 30 30 29.27 29.89 30 29.89 30 30 29.81 30 30 30 30 30 31.3
Secchi (m)	0.4	21.3	21.3	21.3	21.5	21.5	21.5	2.5	2.5		2.5			2.5 2.5 2.5 2.5 2.5	2.5 2.5 2.5 2.5 2.5 2.5 2.5	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	2.5 2.5 2.5 2.5 2.5 2.5 0.7	2.5 2.5 2.5 2.5 2.5 2.5 0.7 0.7	2.5 2.5 2.5 2.5 2.5 2.5 0.7 0.7	2.5 2.5 2.5 2.5 2.5 0.7 0.7 0.7	2.5 2.5 2.5 2.5 2.5 2.5 0.7 0.7 0.7 0.8	2.5 2.5 2.5 2.5 2.5 2.5 0.7 0.7 0.8 0.8	2.5 2.5 2.5 2.5 2.5 2.5 0.7 0.7 0.8 0.8	2.5 2.5 2.5 2.5 2.5 2.5 0.7 0.7 0.8 0.8 0.8	2.5 2.5 2.5 2.5 2.5 2.5 2.5 0.7 0.7 0.8 0.8 0.8
Depth (m)	1.5	0.5	10.5	21.3	0.5	10.5	21.5	0.5	-		2	3	3 8	3 3 3 5	2 6 4 3 2	2 4 4 5 5 6.5 6.5					2 3 4 4 6 6 6 6 6 0.5 0.5 2 3.2 3.2	2 4 4 5 6 6 6.5 0.5 3.2 3.2 0.5	2 3 3 4 4 6 6 6.5 0.5 0.5 3.2 3.2 3.2 0.5	2 3 3 4 4 4 4 6 6 6 6 6 6 6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	2 3 3 6 6 6 6 6 6 6 6 0.5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 3 6 6 6 6 6 6 6 6 6 0.5 1 1 1 1 1 2 2 3 2 2 3 2 2 3 2 2 3 1 2 1 1 1 1
Split	F	-	-	-	-	-	E	-	-		-															
Rep	-	-	-	-	-	-	-	-	ŀ	-		- - -														
Round	-	2	2	2	2	2	2	7	,	7	7 7	7 7 7	7 7 7 7	7 0 0 0	7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
Year	92	95	92	92	92	95	95	95	[92	95	95 95	95 95													
Day	28	2	9	2	5	9	2	13	Ŀ	2	13	13 13	13 13	13 13 15	13 13 13 13	13 13 13 13	E E E E E E E E E E E E E E E E E E E	E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	13 13 13 13 13 13 13 13 13 13 13 13 13 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 13 13 13 13 13 13 13 13 13 13 13 13 1
Month	9	7	7	7	7	7	7	_		`	<u> </u>							, , , , , , , , , , , , , , , , , , , ,								
Station Month Day Year Round	7-5	P0-1	A0-1	A0-1	A0-2	A0-2	A0-2	1-5-1	5	1	LC-1	5 5	[5] [5]		1-51	1.0.1 1.0.1	LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 LC-1	LC-1 LC-1 LC-1 LC-1 LC-1 MP-1	LC-1 LC-1 LC-1 LC-1 LC-1 MP-1 MP-1	LC-1 LC-1 LC-1 LC-1 LC-1 MP-1 MP-1	LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 MP-1 MP-1 MP-1	LC-1 LC-1 LC-1 LC-1 LC-1 MP-1 MP-1 MP-2 MP-2	LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 MP-1 MP-1 MP-2 MP-2	LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 MMP-1 MP-2 MP-2 MP-2	LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 MP-1 MP-1 MP-2 MP-2 MP-2	LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 LC-1 MP-1 MP-1 MP-2 MP-2 MP-2 MP-2 MP-2 MP-2 MP-2 MP-2

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Time	950	950	900	900	835	835	835	1125	1125	1125	1125	1125	1125	1125	1110	1110	1110	1110	1110	1110	1110	1110	1110	1110	840	of 23
Sulfide (mg/L)		•	5	5							,		٠	•				٠	٠					•		Sheet 7 of 23
Salinity (ppt)	30.8	30.8	30.4	30.6	12.1	34.1	35.6	36.4	36.4	36.4	36.4	36.4	36.4	36.4	16.5	17.1	26.1	27.9	28.7	29.1	29.5	30.7	30.8	30.8	14.6	
DO (mg/L)	2.13	2.16	5.87	5.91	1.95	3.2	3.49	6.12	9	5.61	5.08	٠.	4.8	3.6	6.35	7.31	2.91	1.28	0.05	0.02	0.01	10.0	0.01	0.05	6.88	
pH (STD)	8.09	8.09	8.72	8.7	7.66	8.06	8.12	8.38	8.38	8.37	8.35	8.34	8.33	8.28	8.18	8.41	8.02	7.93	7.93	7.86	7.58	7.26	7.22	7.21	8.59	
Temp (C)	31.28	31.26	30.38	30.38	29.7	29.38	29.09	29.19	29.17	28.99	28.77	28.77	28.77	28.58	30.95	30.81	31.46	30.99	30.97	30.79	30.5	29.38	29.09	28.95	30.52	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C) pH (STD) DO (mg/L)	0.5	0.5	0.3	0.3	0.5	0.5	0.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
Depth (m)	1	1.3	0.5	1	0.5	1	2	0.5	7	4	9	8	10	12.1	0.5	1	2	3	4	5	9	7	8	6	0.5	
Split	1	1	1	l	ı	ı	1	ı	1	ı	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	
Rep	1	1	1	1	1	1	1	1	1	l	ţ	ı	1	1	1	1	1	1	1	1	1	1	1	1	1	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	92	92	92	92	92	92	92	92	92	98	98	92	92	92	92	92	92	92	92	92	92	98	92	92	95	
Day	12	12	12	12	13	13	13	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	P1	PL-1	PL-2	PL-2	PN-1	PN-1	PN-1	SA-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SJ-1							

Time	840	840	910	910	1000	1000	945	945	945	1015	1015	1015	1015	910	910	910	910	910	910	910	910	910	940	940	940	of 23
Sulfide (mg/L)			•	•			•	•	•							٠		•		•			•	•	•	Sheet 8 of 23
Salinity (ppt)	14.8	15	15.2	15.2	15.8	15.8	15.9	16	15.9	16	16	22.4	27.2	36.4	36.4	36.4	36.5	36.7	36.6	36.7	36.6	36.5	35.6	35.6	35.6	
DO (mg/L)	6.26	5.42	7.8	7.4	4.01	3.91	9	6.05	6.18	5.24	5.41	2.65	0.34	85.3	6.01	5.84	2.77	5.82	5.78	5.81	5.77	5.79	5.62	5.46	5.28	
pH (STD)	8.55	8.4	8.45	8.44	98'2	7.82	8.26	8.28	8.28	8.11	8.09	7.92	7.95	8.37	8.39	8.41	8.4	8.41	8.42	8.42	8.42	8.42	8.39	8.38	8.37	
Temp (C)	30.38	30.26	29.74	29.72	30.26	30.26	30.3	30.28	30.26	30.71	30.67	31.77	31.32	30.48	29.06	18.91	28.75	28.29	28.25	28.21	28.17	28.17	29.36	29.32	29.27	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C) pH (STD) DO (mg/L)	9.0	9.0	0.3	0.3	1.1	1.1	1.5	1.5	1.5	9.0	8.0	0.8	9.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	9.0	9.0	9.0	
Depth (m)	1 .	1.8	0.5	1	0.5	1.4	0.5	1	2	0.5	-	2	8	0.5	2	4	9	8	10	12	14	16.6	9.0	1	1.9	
Split	ι	1	ı	ı	ı	١	-	ı	1	-	-	ı	-	-	-	-	-	ı	-	1	٦	_	-		Ŀ	
Rep	1	-	1	-	-	-	-	_	-	-	-	1	-	-	-	_	-	-	-	_	-	-	Ŀ	-	-	
Round	7	7	7	2	2	2	7	2	7	2	7	2	2	2	2	2	2	2	2	2	7	2	2	2	2	
Year	92	98	98	92	92	92	92	92	92	92	92	92	92	92	98	92	98	96	92	96	98	92	92	92	95	
Day	11	11	11	Ξ	1	11	Ξ	=	1	Ξ	Ξ	11	Ξ	10	2	9	9	9	10	10	5	10	10	10	9	
Month	4	4	1	7	۷	7	7	7	7	7	7	7	7	7	7	7	^	_	^	7	^	^	7	^	7	
Station	SJ-1	S.J-1	SJ-2	SJ-2	SJ-3	SJ-3	SJ-4	SJ-4	SJ-4	SJ-5	SJ-5	SJ-5	SJ-5	SJB-1	SJB-2	SJB-2	SJB-2									

Time	1030	1030	1030	1030	1030	1030	1030	1005	1005	1005	1005	1015	1015	1015	1015	1015	1015	1015	730	730	730	730	20	1120	1100	23
Ë	은	2	2	2	2	2	2	2	9	2	2	은	10	9	2	2	은	9	73	7	12	73	1120	Ξ	=	of.
Sulfide (mg/L)	0	0	0	0	0	0	0		-																	Sheet 9 of 23
Salinity (ppt)	36.3	36.3	36.4	36.4	36.5	36.5	36.5	36.2	36.2	36.2	36.2	35.2	35.9	36	36.1	36.1	36.3	36.3	33.9	33.9	35.7	36	33.1	33.6	32.8	
DO (mg/L)	6.15	6.05	5.82	5.58	5.38	5.27	5.34	5.83	5.84	5.83	4.97	6.19	6.15	5.46	5.32	5.19	5.09	4.53	5.36	5.4	5.28	5.26	5.91	6.04	5.64	
pH (STD)	8.39	8.39	8.38	8.38	8.38	8.38	8.37	8.37	8.36	8.36	8.35	8.41	8.44	8.4	8.39	8.39	8.39	8.35	8.33	8.32	8.31	8.3	8.37	8.39	8.34	
Temp (C)	29.48	29.36	28.99	28.85	28.64	28.52	28.52	29.84	29.82	29.7	29.62	30.16	29.8	29.48	29.17	28.99	28.91	28.85	29.36	29.27	28.79	28.78	30.44	30.26	30.69	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C) pH (STD)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	6.0	0.9	6.0	6.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	9.0	9.0	0.8	
Depth (m)	0.5	7	4	9	8	10	11.5	0.5	1	2	2.8	0.5	2	4	9	8	10	11.3	0.5	1	2	3.1	0.5	1.1	0.5	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	-	-	1	-	1	1	-	
Rep	1	1	1	-	-	-	1	-	1	1	1	1	1	-	1	1	1	1	-	-	-	-	-	-	-	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	92	92	92	92	95	92	92	92	92	92	92	92	95	92	92	92	92	92	92	92	92	95	95	95	92	
Day	5	10	10	2	01	10	5	5	10	2	10	13	13	13	13	13	13	13	0	5	5	5	12	12	12	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	^	7	7	
Station	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4	SJB-5	TL-1	17-1	TL-1	TL-1	TL-2	TL-2	TL-3													

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Time	1100	1100	1030	1030	1030	2	1010	의	2	8	8	8	ŏ	ŏ	ĕ	æ	8	8	8	8	8	<u></u>	<u>~</u>	8	6	10 of
Sulfide (mg/L)	•	٠	•	•		•			٠			•			٠	٠	٠	٠	٠	٠		•	•	·		Sheet 10 of 23
Salinity (ppt)	32.9	32.8	30.8	32.4	34.5	34.8	29.4	31.2	33.6	36.2	36.2	36.2	36.2	36.2	36.2	35.8	35.8	35.8	35.9	35.9	36	36.1	36.1	36	9.8	
DO (mg/L)	5.64	5.64	4.95	4.3	1.42	1.98	4.87	1.94	0.94	5.93	5.88	5.79	5.89	5.85	5.84	6.21	6.3	6.41	6.37	5.98	5.26	5.51	5.2	5.11	5.6	
(GTS) Hq	8.34	8.34	8.25	8.23	8.11	8.2	8.3	8.19	7.97	8.49	8.49	8.47	8.48	8.48	8.46	8.52	8.53	8.54	8.53	8.51	8.47	8.48	8.47	8.45	7.77	
Temp (C)	30.67	30.67	30.99	31.11	30.36	30.04	31.57	31.22	31.32	28.5	28.52	28.35	28.35	28.35	28.33	29.22	29.15	29.11	29.13	29.01	28.94	28.89	28.91	28.87	26.19	
Secchi (m)	9.0	9.0	0.7	0.7	0.7	0.7	0.5	0.5	0.5							3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.2	
Depth (m)	-	1.2	0.5	-	2	2.8	0.5	-	1.5	0.5	6	18.8	0.5	6	18	0.5	-	2	3	4	5	9	,	7.5	0.5	
Split	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	<u> -</u>	<u> -</u>	-	-	-	-	上	Ŀ	
휼	-	-	-	-	-	-	-	-	-	E	-	-	-	-	-	-	Ŀ	-	L	-	<u> -</u>	-	-	-	Ŀ	
Round	2	2	2	2	2	2	2	2	7	က	۳	၉	က	က	۳	ဗ	က	8	3	6	٣	<u>س</u>	۳	က	6	
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	92	95	95	95	95	95	8	
Day	12	12	12	12	12	12	12	12	12	24	24	24	24	24	24	31	31	3	31	31	31	3	8	<u> </u>	2	4
Month	7	7	7	7	7	7	_	-	-	Ŀ	<u> </u>	-	-	Ŀ	-	_	Ŀ	<u> </u> -	-	-	_	-	-	Ŀ	-	
Station Month Day Year Round	TL-3	TL-3	TL-4	TL-4	TL-4	TL-4	11-5	1-5	5- 1-5-	A0-1	A0-1	40-1	A0-2	A0-2	A0-2	107	5	1	5	ان ن	<u>ن</u>	2	12	2	N P	

0	Ta	T	Ta	Te	Ta	Te	Ī,	T.	T.	1.	1.	1.5	Lie	T	T_	T	To	To	10	IC	I	I	Io	TO	I.C	<u></u>
Time	940	940	940	940	906	900	906	906	000	940	940	845	845	840	840	840	1150	1150	1150	1150	1150	1150	1150	1000	1000	6 20
Sulfide (mg/L)					9	9	9	9	9			0	0		٠											Sheet 11 of 23
Salinity (ppt)	24	35.3	35.6	35.4	17.5	32.9	35.5	35.6	35.4	28.4	28.3	29.5	29.4	0.1	0.1	0.1	35.8	35.8	35.8	35.8	36	36.6	36.1	17.1	17.2	
DO (mg/L)	0.05	0.21	0.47	0.75	0.12	0.04	0.05	90.0	0.12	3.4	3.38	6.64	6.65	4.26	4.26	4.26	5.72	5.67	5.62	5.44	4.66	4.68	4.71	6.07	5.95	
pH (STD)	7.68	8.05	8.04	8.03	7.72	7.93	7.56	7.56	7.62	8.62	8.61	9.18	9.14	7.96	7.96	8.01	8.47	8.47	8.47	8.46	8.44	8.45	8.45	8.42	8.41	
Temp (C)	28.44	29.46	29.19	29.11	27.84	30.04	29.42	29.31	29.31	29.17	29.18	29.82	29.82	25.78	25.78	25.78	29.29	29.25	29.15	29.05	28.91	28.75	28.68	30.2	30.16	
Station Month Day Year Round Rep Split Depth (m) Secchi (m)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	8.0	9.0	
Depth (m)	1	2	3	3.5	0.5	1	2	3	3.4	0.5	1	0.5	6.0	0.5	1	2	0.5	2	4	9	8	10	11.6	0.5	-	
Split	1	ı	1	1	1	1	1	-	-	1	1	1	1	-	1	1	1	-	-	-	-	-	1	1	ᅱ	
Rep	٦	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-		-	
Round	3	3	3	3	3	3	3	6	3	3	3	3	9	3	9	3	3	3	3		6	3	9	3	ဧ	
Year	92	92	92	95	92	92	92	92	92	92	92	95	92	95	92	92	92	92	92	32	92	92	95	95	92	
Day	27	27	27	27	27	27	27	27	27	25	25	25	25	27	27	27	24	24	24	24	24	24	24	56	26	
Month	7	7	7	~	7	7	7	7	7	~	_	7	7	_	_	7	7	7	~	~	7	7	7	7	7	
Station	MP-1	MP-1	MP-1	MP-1	MP-2	MP-2	MP-2	MP-2	MP-2	PL-1	PL-1	PL-2	PL-2	PN-1	PN-1	PN-1	SA-1	SC-1	SC-1							

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Time	1000	1000	1000	1000	1000	1000	1000	1000	810	810	810	835	835	832	915	915	915	8	8	8	940	940	940	940	940	12 of 23
Sulfide (mg/L)	•	٠	•	•	•	•	•		·	·	٠						•									Sheet 1
Salinity (ppt)	18.2	25.1	26.9	8'67	30.1	30.3	30.5	30.5	14.9	14.9	14.8	15	15.2	15.2	16.2	16.2	16.1	16.2	16.2	16.2	16.1	16.2	19	26.7	27.7	
pH (STD) DO (mg/L)	4.17	0.03	0.01	0.02	0.02	0.02	0.03	0.1	6.53	6.35	6.01	5.34	2.54	2.54	6.17	6.2	6.34	4.38	4.24	4.45	4.65	4.53	1.57	0.01	0.02	
pH (STD)	8.21	7.82	7.91	7.65	7.57	7.35	7.29	7.28	8.73	8.7	8.65	8.28	8.11	7.94	8.57	8.57	8.55	8.14	8.14	8.14	8.24	8.26	7.96	7.7	7.33	
Temp (C)	30.3	30.85	30.91	30.73	30.5	29.72	29.38	29.21	29.98	29.94	29.9	29.29	29.38	29.38	29.88	29.88	29.86	29.86	29.86	29.9	30.08	30.08	30.67	30.95	30.65	
Secchi (m)	0.8	0.8	0.8	0.8	0.8	9.0	0.8	9.0	9.0	9.0	9.0	0.7	0.7	0.7	1.8	1.8	1.8	2	2	2	1.2	1.2	1.2	1.2	1,2	
Depth (m)	2	8	4	2	9	7	8	8.3	0.5	-	1.9	0.5	-	1.2	0.5	-	8.	0.5	-	2	0.5	-	7	3	4	
Split	-	-	1	-	-	-	-	-	-	-	Ŀ	-	-	_	<u> -</u>	-	Ŀ	Ŀ	<u> </u> -	-	r	<u> -</u>	上	Ľ	上	1
Rep	[-	-	-	-	-	Ŀ	-	-	-	-	-	-	-	上	-	Ŀ	<u> -</u>	Ŀ	上	-	<u> -</u>	-	上	Ļ	1	1
Round	٣	۳	6	6	6	3	3	3	3	3	۳	m	3	6	۳	٣	6	6	m	۳	٣	\ -	\ 	6	-	,
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	6	╄-	╇	+	4-	4	+	╇	4-	4
Day	26	18	28	26	26	98	26	26	26	26	26	26	26	26	26	26	26	3 2	26	56	28	1 5	1 %	1 5	3 8	
Month	-	\ -	-	-	_	7	7	_	7	_	7	-	-	<u> </u> -	_	-	1	<u> </u>	<u> </u>	<u> </u> -		<u> </u>	1	1	上	
Station Month Day Year Round	ر ان ا	1.78	3 5	ن نا	150	3 5	SC-1	SC-1	8.1-1	1-18	1-10	21.8	S.J.2	213	<u> </u>	2 0	2 2	3 4	2 V	8.1.4	2 0	3 0	3 0	3 2		2

Time	940	915	915	915	915	915	915	915	915	915	915	1000	1000	1000	1030	1030	1030	1030	1030	1030	1030	1100	1100	1100	1100	<u> </u>
\vdash	6	°	6	6	6	n	6	6	6	6	6	۲	۲	۲	۲	٢	۲	۲	٢	۲	15	Ξ	Ξ	Ε	E	3
Sulfide (mg/L)	٠	٠													0	0	0	0	0	0	0					
pH (STD) DO (mg/L) Salinity (ppt)	28	35.3	35.2	35.8	36	36.1	36.1	36.2	36.2	36.2	36.1	33.7	33.7	33.9	35.3	35.3	35.5	35.8	36.1	36.2	36.2	35.7	35.8	35.7	35.7	
DO (mg/L)	90.0	7.18	7.18	6.84	6.19	5.85	5.85	5.67	5.69	5.67	5.65	5.85	5.77	5.67	7.18	6.85	6.55	6.2	5.6	4.85	4.79	6.13	5.97	5.87	5.44	
(STD)	7.35	8.58	8.59	8.53	8.5	8.51	8.5	8.5	8.5	8.49	8.49	8.54	8.54	8.53	8.56	8.56	8.53	8.48	8.49	8.45	8.45	8.49	8.48	8.47	8.45	
Temp (C)	30.34	29.48	29.41	28.99	28.72	28.68	28.56	28.5	28.48	28.46	28.48	29.56	29.54	29.6	29.34	29.32	29.22	28.99	28.77	28.7	28.6	29.86	29.82	29.76	29.66	
Secchi (m)	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.5	0.5	0.5	1	1	1	1	1	1	1	0.4	0.4	0.4	0.4	
Station Month Day Year Round Rep Split Depth (m)	9	0.5	2	4	9	8	10	12	14	16	16.5	0.5	1	1.9	0.5	2	4	9	8	10	11	0.5	1	2	3	
Split	1	1	1	1	1	-	1	1	1	1	1	1	1	1	-	-	1	-	1	1	-	-	1	-	-	
Rep	1	-	1	1	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	
Round	3	3	3	3	3	3	3	3	3	က	3	3	က	3	6	3	3	3	3	3	3	3	3	6	3	
Year	92	92	92	92	92	92	92	92	92	92	92	92	92	95	92	92	92	92	92	92	92	95	95	92	92	
Day	26	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Month	~	7	7	7	7	7	7	7	7	7	7	7	~	^	7	7	7	~	7	^	7	_	7	7	7	
Station	SJ-5	SJB-1	SJB-2	SJB-2	SJB-2	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4																

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Time	1130	1130	1130	1130	1130	1130	1130	735	735	735	735	735	1110	1110	725	725	1030	1030	1030	1030	1000	1000	1000	840	840	4 of 2
Sulfide (mg/L)		٠	•			•	٠	•	•		٠	٠	٠	٠		·		·	·	٠	·	٠	,	٠	•	Sheet 14 of 23
Salinity (ppt)	34.9	35.8	35.9	35.9	35.9	36	36	28.7	29	30.3	36	35.7	27.3	28.1	26.4	26.6	29.5	30.9	33.8	34.2	22.5	28.8	31.6	37.9	37.8	
pH (STD) DO (mg/L)	5.88	5.44	4.87	5.01	4.98	5.15	90'9	5.68	5.79	5.38	5.33	5.55	6.68	6.56	5.79	5.86	99.6	5.23	1.16	1.21	8.99	0.8	0.2	5.37	5.36	
(STD)	8.48	8.48	8.44	8.45	8.45	8.47	8.48	8.46	8.48	8.44	8.39	8.35	8.52	8.49	8.41	8.41	8.43	8.41	8.11	8.14	8.81	8.39	8.1	8.18	8.17	
Temp (C)	29.7	29.21	29.05	29.03	28.95	28.81	28.7	28.89	28.92	28.93	28.66	28.65	30.27	30.34	30.32	30.24	30.73	30.81	30.42	29.98	31.26	30.77	30.97	28.44	28.42	
Secchi (m)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.3	0.3	9.0	9.0	9.0	9.0	0.4	0.4	4.0	18.3	18.3	
Depth (m)	0.5	2	4	9	8	10	11.5	0.5	-	2	3	3.2	0.5	1	0.5	1	0.5	-	2	2.6	0.5	-	1.3	0.5	6	
Split	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rep	-	-	-	-	-	-	-	1	-	٦	-	-	-	-	_	-	-	-	-	-	-	-	Ŀ	-	-	
Year Round	3	3	6	3	3	3	3	3	3	8	က	က	6	3	က	က	က	က	က	က	٣	۳	က	4	4	
Year	92	95	95	95	95	95	95	95	95	95	95	95	95	95	95	92	95	92	95	92	92	95	92	95	95	
Day	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	^	_	
Month	7	7	7	7	7	7	7	7	7	_	_	_	7	_	7	^	_	_	_	_	_	_	7	8	∞	
Station Month Day	SJB-5	SJB-5	SJB-5	SJB-5	SJB-5	SJB-5	SJB-5	11-1	11-1	TL-1	11.1	17-1	TL-2	TL-2	TL-3	TL-3	TL-4	TL-4	TL-4	TL-4	71.5	TL-5	TL-5	A0-1	40 -	

				_		_	_					_									_				-	_
Time	840	800	800	800	1026	1026	1026	1026	1026	1026	1026	845	845	845	845	845	810	810	810	810	810	946	946	903	903	of 23
Sulfide (mg/L)		•	•		•	•	•	•		•	•	•	•	•	•	•	12	12	12	12	12	•	•	0	0	Sheet 15 of 23
Salinity (ppt)	37.9	37.8	37.8	37.9	37.2	37.2	37.3	8.78	37.4	37.4	37.5	1.82	29.9	36.9	37	37.1	32.7	35.7	2.98	37	28	27.6	27.6	28.1	28.1	
DO (mg/L)	5.2	5.26	5.26	5.01	5.05	50.3	5.02	4.76	4.36	3.99	3.78	1.9	1.82	1.29	2.61	2.82	2.68	0.17	90'0	0.08	0.13	3.7	3.59	4.5	4.41	
pH (STD)	8.16	8.16	8.16	8.13	8.16	8.16	8.16	8.15	8.11	8.07	8.07	7.65	69'.	7.82	7.97	66'4	7.79	7.65	7.72	96'9	6.97	8.49	8.45	8.7	89.8	
Temp (C)	28.36	28.25	28.25	28.19	30.16	30.08	29.98	89.62	29.48	29.42	29.44	29.31	29.38	29.15	29.11	59.09	30.26	29.72	29.15	10.62	19.91	29.88	29.86	8.62	8'67	
Secchi (m) Temp (C) pH (STD) DO (mg/L)	18.3	15.9	15.9	15.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.2	0.2	
Station Month Day Year Round Rep Split Depth (m)	18.3	0.5	7.5	15.9	0.5	1	2	3	4	5	5.7	0.5	1	2	3	3.3	0.5	1	2	3	3.8	0.5	1.1	0.5	8.0	
Split	1	1	1	1	1	1	1	1	1	1	-	-	1	1	1	1	-	1	1	1	1	1	1	1	-	
Rep	1	1	1	1	1	l	1	1	ı	ı	1	1	1	ı	l	ŀ	1	ı	1	ı	1	ı	ı	1	1	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Year	92	95	92	92	98	92	95	92	98	92	92	92	92	92	92	98	95	92	92	98	92	95	95	95	92	
Day	7	7	7	7	10	10	10	10	10	10	10	01	10	10	10	10	10	10	2	9	9	ω	8	8	ω	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	A0-1	A0-2	A0-2	A0-2	LC-1	MP-1	MP-1	MP-1	MP-1	MP-1	MP-2	MP-2	MP-2	MP-2	MP-2	PL-1	PL-1	PL-2	PL-2							

				_		<u> </u>	<u> </u>	ন	<u>Α</u> Ι	<u> </u>	_		_	_		_			<u></u>	_	<u> </u>	_	ភា	ച	٥	2
Time	905	905	905	1130	1130	1130	1130	1130	1130	1130	940	940	940	940	940	940	940	940	940	940	8	8	8	820	820	6 of 2
Sulfide (mg/L)	٠	•					•		•	٠	•	•	٠			•	•		•		•			•		Sheet 16 of 23
Salinity (ppt)	4.7	36.5	36.8	37.4	37.4	37.5	37.5	37.5	37.8	37.8	14.9	14.9	22.5	26.3	26.9	30.6	30.9	31.1	31.5	31.5	12.7	12.7	12.7	12.8	13	
DO (mg/L)	0.17	96.0	1.62	5.16	90'9	5.03	4.93	4.74	4	4.04	4.56	4.3	2.32	1.59	1.01	0.02	0.03	0.03	0.04	60.0	6.16	6.15	6.11	4.18	2.2	
(GTS) Hq	7.45	7.84	7.89	8.12	8.12	8.12	8.11	8.11	8.07	8.06	7.68	7.65	7.58	7.65	7.61	7.3	7.11	7.01	6.92	6.9	8.39	8.38	8.37	7.89	7.64	
Temp (C)	29.25	29.23	29.17	28.85	28.81	28.77	28.73	28.58	28.31	28.23	30.48	30.46	30.52	30.79	30.79	30.71	30.32	29.98	29.5	29.21	30.22	30.22	30.2	30.24	30.46	
Secchi (m)	0.5	0.5	0.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.4	0.4	0.4	0.7	0.7	
Rep Split Depth (m)	0.5	-	2.1	0.5	2	4	9	80	10	12	0.5	-	2	က	4	2	9	_	8	8.6	0.5	-	2	0.5	-	
Split	F	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> -</u>	Ŀ	<u> </u> -	<u> </u> -	Ŀ	Ŀ	-	-	-	-	Ŀ	
	-	-	-	-	-	-	-	-	<u> -</u>	Ŀ	-	Ŀ	<u> </u> -	Ŀ	Ŀ	-	Ŀ	-	Ŀ	-	Ŀ	上	Ŀ	Ļ	<u> </u> -	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	5	8	8	95	95	95	95	95	6	5	
Day	9	2	2		^	_	7	Ŀ	_	_	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	,
Month	∞	@	8	∞	8	000	000		000					0	-	ď) <u>«</u>	, «	0 00		0	α	- «) «	╀	4
Station Month Day Year Round	PN-1	PN-1	PN-1	SA-1	SA-1	SA-1	SA-1	SA-1	SA-1	SA-1	SC-1	30	١	SC-1	SC-1	5	3	30	30.5	S C	S 12	1	7	613	2 0	3

5	Month	λgα	ē	Round	Rep	Split	Depth (m)	Station Month Day Year Round Rep Split Depth (m) Secchi (m)	Temp (C)	pH (STD)	DO (mg/L)	Salinity (npt)	Sulfide (mail)	ا ا
SJ-2	8	6	95	4	-	1	1.3	0.7	30.95	7.13	0 7 0	add) (a	came amb/r)	
SJ-3	8	6	95	4	-	-	2	0	3	2	8 0	13.5		820
S.J.3		0.	۶.	-	1	-	<u>;</u>],	<u>.</u>	30.0	ابه	3.33	14		855
6.1 N	٥	٥	ä		- -	-	-	20	30.59	7.61	3.38	14	•	855
2 5		, ,	g l	4	- -	-	- 19	1.8	30.59	7.61	3.46	14		855
,	۰	, ,	s s	4	-1	-	0.5	-:	30.3	7.95	4.77	13.9		840
	»	ກ	8	4	-	-	-	1.1	30.3	7.97	4.82	14		2
SJ-4		6	92	4	-	귀	2.1	1.1	30.28	7.96	4.84	13.9		2 2
SJ-5		6	95	4	-	-	0.5	9.0	30.59	7.95	4.77	14.1		1
37-5	。	6	92	4	-	-	-	9.0	30.59		4 46	2		0 1
SJ-5	8	6	95	4	F	-	2	8.0	31 03	7.40	2 -	± 0,	1	2
SJ-5	8	6	95	4	-	†-	2.5	000	200		0 !	8.8		915
SJB-1	8	┝	95	4	†-	-	2 2	2	100);	1.45	25		915
S.IR-1	α	ţ	١	Ϊ,	†.	†.	3	?	43.4	8.16	5.14	36.9	٠	900
	۰	,	g i	,	-	-	7	1.5	29.19	8.15	5.1	37		900
\pm	»	1	32	4	-	-	4	1.5	28.91	8.17	5.46	37.2		006
1-900	»	7	92	4	-	-	9	1.5	28.72	8.17	5.27	37.4		000
SJB-1	8	7	92	4	-	_	8	1.5	28.5	8.16	5 23	37.6		
SJB-1	8	7	95	4	-	-	9	1.5	28.42	8 18	2,2	37.7		200
SJB-1	8	7	92	4	-	-	12	1.5	28 25	1 2 2	;	37.7		200
SJB-1	8	7	95	4	-	-		2	200		3.12	3/./	·	900
S 18.1	a	ļ	100	† ,	†.	1.	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	?	26.35	8.15	5.09	37.7		900
6 00	,	+	3 2	╁	- ,	+	15.9	1.5	28.3	8.14	5.12	37.7		900
2000	,	+	<u> </u>	4	_	+	0.5	0.7	29.44	8.18	90'9	32.8		930
+	<u>,</u>	+	32	4	_	-	-	0.7	29.44	8.16	4.95	33.7		020
SJB-2	®	_	95	4	-	-	1.5	0.7	29.46	8.11	4.52	35.7		3
SJB-3	8	7	95	4	-	-	0.5	1.7	29.11	8.15	5.4	36.0	T	330
SJB-3	8	7	98	4	-	-	2	[-	29.07	8.15	5 22	20.3		000
					-					,	7,575	'n	0	000
1													Sheet 17 of 23	f 23

2	8	8	1000	1000	1000	1035	1035	35	1035	8	8	8	8	8	8	8	٥	lo	0	ွ	စ	9	9	23	23	33
Time	1000	ļē	ļě	ļě	ļ	100	100	1035	ļè	1100	19	1100	1100	1100	1100	1100	730	730	730	730	730	1146	1146	1123	1123	3 of
Sulfide (mg/L)	0	0	0	0	0								•													Sheet 18 of 23
Salinity (ppt)	37.4	37.5	37.6	37.7	37.8	37.3	37.3	37.4	37.4	36.1	37.3	37.4	37.4	37.5	37.7	37.6	34	34.1	34.2	34.6	36	31.2	31.3	29.8	29.8	
DO (mg/L)	5.18	4.66	4.55	4.4	4.01	4.64	4.6	4.59	4.52	4.51	4.71	4.5	4.26	4.22	4.22	4.23	4.19	4.2	4.27	4.36	4.6	5.41	5.42	4.87	4.87	Ė
pH (STD)	8.14	8.11	8.11	8.11	8.08	8.07	8.07	8.08	8.07	8.08	8.11	8.11	8.09	80.8	80.8	80'8	8.05	8.06	8.05	8.06	8.08	90.8	90.8	8.01	8.01	
Temp (C)	28.79	28.68	28.56	28.39	28.27	30.36	30.34	29.38	29.27	28.93	28.72	28.58	28.54	28.48	28.42	28.42	29.03	29.03	29.03	29.01	28.77	30.79	30.71	31.2	31.13	
Secchi (m)	1.7	1.7	1.7	1.7	1.7	1.3	1.3	1.3	1.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	9.0	9.0	9.0	9.0	
Rep Split Depth (m)	4	9	8	10	11.3	0.5	1	2	2.4	0.5	2	4	9	8	10	10.3	0.5	-	2	3	3.6	0.5	0.8	0.5	1	
Split	1	1	1	1	1	1	-	-	1	1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	ᅱ	
Rep	1	1	1	-	1	-	-		-	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
Station Month Day Year Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Year	92	92	92	92	95	95	92	95	95	95	95	95	95	95	95	92	95	92	92	95	95	92	95	92	92	
Day	7	7	7	^	^	^	^	7	7	7	^	7	7	^	~	^	7	^	^	7	^	8	8	®	8	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	<u>∞</u>	8	8	®	8	8	8			®	
Station	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4	SJB-5	17-1	TL:1	TL-1	17-1	17-1	TL-2	TL-2	TL-3	TL-3							

Time	1100	1100	1100	1100	1100	1100	1100	1010	1010	1010	835	835	835	750	750	750	1125	815	815	815	815	745	745	745	745	of 23
Sulfide (mg/L)				•		•									•						٠	12	12	12	12	Sheet 19 of 23
Salinity (ppt)	28.2	33.9	36.1	36.2	36.2	36.3	36.3	21.4	29.1	34.1	37	37.1	37.2	37.1	37.2	37.2	•	32.1	32	36.1	36.2	28.3	35.2	36.1	36.4	
pH (STD) DO (mg/L)	3.97	1.0	80'0	90'0	90.0	0.04	0.04	3.77	0.16	90.0	5.03	4.98	4.77	5.1	5.14	4.46		0.03	0.03	0.03	90'0	0.05	0.07	80'0	0.1	
pH (STD)	8.12	8.05	6'2	7.81	7.43	7.21	6.88	8.19	7.96	7.58	8.3	8.3	8.29	8.28	8.29	8.24	•	7.76	7.8	7.85	7.92	7.55	7.66	7.02	7.01	
Temp (C)	30.75	29.93	29.62	16.72	27.52	27,15	27.13	31.3	30.83	30.54	29.09	29.03	28.97	28.88	28.91	58.79	,	30.28	30.01	29.62	29.66	29.72	30.02	6.62	29.58	
Secchi (m) Temp (C)	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.4	0.4	0.4	17.5	17.5	17.5	16.5	16.5	16.5	3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Station Month Day Year Round Rep Split Depth (m)	0.5	2	4	9	8	10	12	0.5	1	1.4	0.5	8.5	17.5	0.5	8	16.5		0.5	1	2	3.1	0.5	1	2	3	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Round	4	4	4	4	4	4	4	4	4	4	2	2	2	5	5	2	5	2	5	5	5	5	5	5	5	
Year	98	92	95	95	92	92	92	92	92	92	92	98	98	95	92	92	95	92	92	92	92	92	98	92	92	
Day	8	8	8	8	8	8	8	8	8	8	22	22	22	22	22	77	28	23	23	23	23	23	23	23	23	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	TL-4	TL-5	TL-5	TL-5	A0-1	A0-1	A0-1	A0-2	A0-2	A0-2	LC-1	MP-1	MP-1	MP-1	MP-1	MP-2	MP-2	MP-2	MP-2							

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Time	745	825	825	825	750	750	830	830	830	1200	1200	1200	1200	1200	1200	1200	925	925	925	925	925	925	925	925	925	0 of 2
Suffide (mg/L)	12	•		٠	1	1	•	٠	•	•	٠	,	٠	•			٠		•		·		•	•		Sheet 20 of 23
Salinity (ppt)	36.5	24.8	27.4	27.4	26	26.2	3.9	35.2	36.2	36.6	36.5	36.6	36.8	36.9	37	37.1	15	15.1	22.7	25.5	27.7	29.4	30.9	31.3	31.5	
DO (mg/L)	0.19	99'0	0.2	0.18	2.86	2.94	0.03	0.03	90.0	90.9	60.9	6.03	4.95	4.84	4.38	3.57	4.63	4.36	0.23	0.14	0.02	0.01	0.01	0.01	0.01	
(STD)	6.97	8.05	8.04	8.04	2.8	2'8	9.7	7.84	7.88	8.35	8.35	8.35	8.28	8.26	8.24	8.18	8.1	8.06	7.62	9.7	7.67	7.73	7.18	7.05	7.01	
Temp (C)	29.46	30.06	30.32	30.34	28.96	28.95	28.12	29.72	29.68	29.56	29.46	29.42	29.15	29.13	29.15	29.16	29.4	29.36	30.54	30.91	31.44	31.15	30.3	29.8	29.44	
Secchi (m)	0.4	0.3	0.3	0.3	0.2	0.2	0.5	0.5	0.5	2	2	2	2	2	2	2	0.8	9.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	
Split Depth (m)	3.5	0.5	-	1.2	0.5	0.7	0.5	-	1.8	0.5	2	4	9	80	10	11.8	0.5	1	2	3	4	2	9	1	8	
Split	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	Ŀ	Ŀ	Ŀ	
Rep	-	-	-	-	-	-	-	-	-	-	-	-	٦	-	Ŀ	-	<u> -</u>	-	-	上	-	-	Ŀ	-	Ŀ	
Round	5	5	5	2	2	5	5	5	5	2	2	2	က	മ	മ	2	2	2	2	2	2	2	ည	۵	2	
Year	92	95	95	95	92	95	95	92	95	95	95	95	95	95	95	95	95	95	95	95	92	95	95	95	86	
Day	23	24	24	24	24	24	23	23	23	22	22	22	22	22	22	22	21	21	21	21	2	21	21	2	2	
Month	8	8	∞	8	8					∞	8	ω	ω		000	ľ	∞	ω	8			000	000	00	ď	
Station Month Day Year Round	MP-2	P.1-1	PL-1	PL-1	PL-2	PL-2	P.	PN-1	PN-1	SA-1	SA-1	SA-1	SA-1	SA-1	SA-1	SA-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	SC-1	٥	3

_	_	_		_	_	_			_	_	_	-	_	_			_		_	_	_	_		_	_	
Time	925	741	741	741	800	800	845	845	845	820	820	820	900	900	900	900	905	905	905	905	905	905	902	905	905	of 23
Sulfide (mg/L)			-										٠	•			٠						,		•	Sheet 21 of 23
Salinity (ppt)	31.4	13.5	13.5	13.9	14.2	14.2	14.8	14.8	14.9	14.7	14.7	14.7	14.6	14.6	23.8	26	36.5	36.7	36.9	37.1	37.1	37.2	37.1	37.2	37.1	
Station Month Day Year Round Rep Split Depth (m) Secchi (m) Temp (C) pH (STD) DO (mg/L)	0.02	6.44	6.45	5.45	4.42	3.7	2.39	2.14	0.61	3.44	3.37	3.4	5.5	3.66	0.05	0.12	5.05	4.86	4.62	4.83	4.84	4.87	4.86	4.86	4.83	
pH (STD)	۷	8.57	8.56	8.44	8.26	8.18	7.93	7.88	69'.	8.1	8.1	8.09	8.41	8.13	7.16	7.54	8.3	8.28	8.26	8.29	8.29	8.3	8.29	8.29	8.29	
Temp (C)	29.25	28.66	28.66	29.36	29.61	29.7	29.29	29.27	29.31	29.23	29.23	29.24	29.23	29.07	31.01	31.38	29.76	29.52	29.42	29.19	29.17	29.11	29.11	29.11	29.09	
Secchi (m)	0.8	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	8.0	0.8	0.8	0.8	2	2	2	2	2	2	2	2	2	
Depth (m)	8.8	0.5	1	1.8	0.5	1	0.5	1	1.5	0.5	1	1.8	0.5	1	2	2.7	0.5	2	4	9	8	10	12	14	15.6	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	
Rep	1	1	-	1	-	1	1	1	1	ı	l	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Round	2	2	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Year	92	92	92	92	92	92	92	92	92	92	98	92	92	92	92	92	92	92	92	92	92	92	95	- 95	92	
Day	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	
Month	8	8	8	80	æ	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	SC-1	SJ-1	SJ-1	SJ-1	SJ-2	SJ-2	SJ-3	SJ-3	SJ-3	83.4	SJ-4	SJ-4	SJ-5	SJ-5	SJ-5	53-5	SJB-1									

				_		_	_			= 1	=		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	ন	οТ	പ	വ	ा	<u></u>	_	8
Time	940	940	940	1000	1000	1000	1000	1000	1000	1000	1000	1050	1050	1050	1050	1050	1120	1120	1120	1120	1120	1120	1120	720	720	2 of 2
Sulfide (mg/L)		•	-	0	0	0	0	0	0	0	0		٠					•	·	٠	•				٠	Sheet 22 of 23
Salinity (ppt)	31	36.2	36.3	35.8	36.5	36.6	36.7	36.7	36.9	37	37	36.7	36.7	36.7	36.7	36.6	36.4	36.4	36.7	36.8	36.9	37	37	28.9	30.2	
DO (mg/L)	5	4.21	4.1	6.48	5.95	5.04	4.88	4.53	3.72	2.57	2.67	4.95	4.9	4.92	5.37	5.08	5.16	4.93	4.61	4.1	3.7	3.21	2.97	4.66	4.74	
pH (STD)	8.41	8.25	8.24	8.35	8.34	8.3	8.29	8.27	8.22	8.13	8.12	8.24	8.24	8.24	8.27	8.25	8.26	8.26	8.24	8.23	8.2	8.16	8.14	8.25	8.26	
Temp (C)	29.52	30	29.96	29.78	29.56	29.34	29.27	29.29	29.13	28.99	28.95	30.71	30.65	30.71	30.28	29.74	30.08	30.1	29.83	29.4	29.27	29.13	29.11	29.19	29.44	
Secchi (m)	-	_	-	2	2	2	2	2	2	2	2	1.7	1.7	1.7	1.7	1.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.7	0.7	
Split Depth (m)	0.5	-	1.5	0.5	2	4	9	80	10	12	12.8	0.5	1	2	3	3.3	0.5	2	4	9	8	9	10.4	0.5	_	
	-	-	-	-	-	-		-	-	-	٦	-	_	-	Ŀ	-	Ŀ	Ŀ	-	Ŀ	-	-	-	-	-	
Rep	-	-	-	-	-	Ŀ	-	-	-	-	-	-	1-	-	-	-	-	-	-	-	L	-	-	-	-	_
Round	5	2	2	2	2	2	2	2	2	2	2	2	عا	2	2	2	2	2	2	2	2	2	1	2	25	4
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	98	95	95	95	95	╄	95	4_	95	4-	4
Day	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	2	22	22	22	22	22	22	22	22	
Month	8	∞	· ·	8	<u></u>	ω	000				∞	∞	L	L	Ļ		· «	~	Ļ		1	Ļ	L	L	ľ	<u>,</u>
Station Month Day Year Round	SJB-2	SJB-2	SJB-2	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-4	SJB-4	SJB-4	S.18-4	2 B	S B S	S.JB-5	SJB-5	SJB-5	S.B.5	S.18-5	F	F	

Station Month Day Year Round				9	Split	Rep Split Depth (m)	Secchi (m)	Temp (C)	pH (STD)	DO (mg/L)	Salinity (ppt)	Sulfide (mg/L)	Time
8 22 95 5 1 1 2	95 5 1 1	1 1	1 1 2	1 2	2		0.7	29.18	8.21	4.55	33.5		720
8 22 95 5 1 1 3	95 5 1 1	1 1	1 1 3	1 3	3		0.7	28.95	8.19	4.58	35.4		720
8 22 95 5 1 1 3.8	95 5 1 1	1	1 1 3.8	1 3.8	3.8		0.7	28.81	8.18	4.82	36.3		720
8 24 95 5 1 1 0.5	95 5 1 1	1	1 1 0.5	1 0.5	0.5		0.4	29.72	8.12	3.87	31.4		1000
8 24 95 5 1 1 0.7	95 5 1 1	1 1	1 1 0.7	1 0.7	0.7		0.4	29.79	8.11	3.8	31.5	•	1000
8 24 95 5 1 1 0.5	95 5 1 1	-	1 1 0.5	1 0.5	0.5		0.4	29.34	8.2	4.47	28.7		940
24	92	5 1 1 1	1 1	-	-		0.4	29.34	8.2	4.46	28.7		940
8 24 95 5 1 1 0.5	95 5 1 1	1	1 1 0.5	1 0.5	0.5		9.0	30.15	8.09	4.05	28.1		900
8 24 95 5 1 1 2	95 5 1 1	1	1 1 2	1 2	2		9.0	29.8	8.01	60.0	34.5		900
8 24 95 5 1 1 4	95 5 1 1	1	1 1 4	1 4	4		9.0	29.05	7.91	90.0	36.2		900
8 24 95 5 1 1 6	95 5 1 1	1	1 1 6	1 6	9		9.0	27.83	7.73	0.05	36.2		900
8 24 95 5 1 1 8	95 5 1 1	1	1 1 8	1 8	80		9.0	27.3	7.4	0.05	36.2		900
8 24 95 5 1 1 10	95 5 1 1	-	1 1 10	1 10	2		9.0	27.1	7.15	0.04	36.3		900
8 24 95 5 1 1 12.4	95 5 1 1	-	1 1 12.4	1 12.4	12.4	\exists	9.0	27.15	7.05	0.03	36.3		900
8 24 95 5 1 1 0.5	95 5 1 1	-	1 1 0.5	1 0.5	0.5		0.3	30.24	8.39	0.62	26.8		845
8 24 95 5 1 1 1	92	5 1 1 1	1 1	-	-		0.3	30.78	7.86	0.03	34		845
8 24 95 5 1 1 1.3	95 5 1 1	1 1	1 1 1.3	1.3	1.3	\dashv	0.3	30.67	7.7	0.04	34.8		845
												Sheet 23 of 23	of 23
						l							Ī

Fable B2	B 2														
Site	In Situ Data for Tri	a fo	ř Tri		7	Sam	butary Sampling Stations	tions						3, 3	
# ion	Station Month Day Year	284	Year	Event	Rep	Split	Split Depth (m) Secchi (m)		Temp (C)	(STD)	DO (mg/L)	Salinity (ppt)	Sulfide (mg/L)	Discharge (m"/sec)	Time
Ş	α	9	55	~	-	-	0		27.75	8.38	5.65	•	٠	0.414	1200
2 5	, .	۳	2	1	-	-	o		27.51	8.35	5.55		٠	0.529	1230
2 :	, ,	, "	3 8	۱۰	-	-	0		27.55	8.12	5.91			4.416	1300
? :	۰۱۰	، ا	3 2	١,	- -	- -	5		27.9	7.97	6.17		٠	4.83	1330
2	2	۰	s i	,	- -	-[27 OF	7.9	6.05			4.232	1400
£	8	٥	92	~	-	-[-		27.52	7 05	5.84			3.634	1500
<u>13</u>	8	و	32	7	-1	-	- 7		27.33	27.6	6.13			2.162	1600
T-3	8	9	92	2	-	-	9		27.85	٥/٠/	2 2			1 794	1700
T-3	8	9	92	7	-	1	0.1		27.8	8.05	5.95			7070	1800
Ţ-3	8	ဖ	95	2	-	-	0	•	27.95	7.92	6.04			0.403	
12	α	۳	95	2	-	-	0		27.91	8.25	6.18			0.368	0081
, ,	۵	۳	a F	°	[-	-	0		27.8	8.12	5.97		٠	0.345	2002
2	٥	;	3 8	-	-	-	0.3		28.1	8.01	6.31	•	•	•	8
<u> </u>	۰	;	8 8	, (-	<u> </u> -	0.5		27.85	8.17	6.54		٠		1500
-	۰۱۰	<u>: </u> :	3 6	, ,	• •	ŀ	5		77.77	8.34	6.6		•	•	2100
4	20		ŝ	,	-]	-			27.01	2 45	6.51				9
T-4	8	2	92	9	-	-	٥		27.3	2 2	0 11				1200
1-4	8	18	92	က	-	_	0.7		27.9	8.3/	6.71				20,7
4	<u>_</u>	≗	95	3	-	_	9.0		27.97	8.4	6.48			•	
;		12	┿	۳	Ŀ	Ŀ	0.7		27.74	8.29	6.52		٠		2200
<u> </u>	• •	<u> </u>		, ,	<u> </u>	<u> </u>	90		27.7	8.31	6.59			٠	2400
-	٥١	<u>:</u>	-	, ,	╧	1	90		27.8	8.34	6.47			•	900
4	»	2	-	2	<u>- </u>	<u>- </u> ·			37.75	╀	6.53				1000
4-7	∞	2	-+	m	ᅵ		ا د د		27.72	+	6 63				1400
T-4	&	19	92	3			0.6		///	+	30.0				1800
4	8	19	95	ო	-	-	9.0		27.67	+	6.49				2200
14	«	<u></u>	95	က	Ľ	_	9.0		27.71	8.37	6.52				2 2
	} •	12	+	╀	Ľ	Ļ	9.0		27.8	8.47	6.45		·		2400
†	• -	2												75	C you t conso

Station Month Day Year		vent	lep (漬	Depth (m)	Event Rep Split Depth (m) Secchi (m) Temp (C)	Temp (C)	IN (STD)	1 1/om/ OG	Colinies (mat)	- 11		
95 3 1	3	-		-	0.4		27.75		6.64	Samuely (ppt)	Sunde (mg/L)	Ulscharge (m3/sec)	Lime
95 3 1	-	-	1.	-	0.3		27.9	8 25	10.0				000
95 4 1 1	E	-	-	+	0		27.51	0.20 8 13	6.0				1000
95 4 1 1	-	- -	-	+	5.0		27.32	7.94	5.00			0.5106	1600
95 4 1 1	-	_	٦-	\vdash	0.1		27.28	7.91	5.59			1.8216	000
95 4 1	1	-		-	0.1		27.3	7 88	F 35			3,2232	1400
95 4 1	1	-	1	+	0.1		27.15	3 0	27.5			1.886	2000
95 4 1	-	┝	•	-	150		27.21	2 70	- C			3.6892	2300
95 4 1	1	-			0.1		27.3	7.93	5.54			1.9596	800
95 4 1 1	-	L	I —	F	0.1	-	27.41	7.75	5.81		•	3.3052	2007
95 4 1 1	-	<u> </u>	_		0		27.32	7.92	5 49			9.3704	009
95 4 1 1	-	H	I —	-	0		27.33	7.98	5.85		•	0.3534	3007
95 5 1 1	-	L	-	-	0.3							0.3034	
95 5 1 1	-	-	-	\vdash	0.7		-						400
95 5 1 1	-		-	\vdash	-								25.00
95 5 1 1	5 1 1		-	\vdash	-								200
95 5 1 1	5 1	-	-	-	-	-							052
95 5 1 1	1	-	I —	 	6.0								000
95 5 1 1	5 1 1	_	-	\vdash	8.0						-		1630
95 5 1 1	-	┞	-	┝	0.4	-		T		1			1700
95 5 1	5 1	H		-	0.4			+	1				1800
-	-	H		-	4.0				+				1900
95 5 1	5 1	\vdash		-	0.4		-						2000
95 5 1	2	├-		-	0.3		1	<u> </u>	1				2100
95 1 1	-	┝		_	6.0	bottom	27.52	8 28	4 73				000
95 1 1				ļ.	0.39	0.25	27.84	8.53	6.5			0.195	
95 1 1	1	-	T- 1	\dashv	0.5	bottom	27	8.38	6:39			0.3772	
			- 12									Sheet	Sheet 2 of 3

		1	1		,		12, 44, (21)	Cook! (m)	Tomp (C)	H (CTD)	DO (ma/L)	Salinity (ppt)	(Jyan) Salinity (bot) Salinity (bot) Salinity (bot) Sulfide (mg/L)	Discharge (m3/sec)	Time
Station Month	Month	Day	Year	Event	e Y	Spir	Deptn (m)	Secon (m)	i emp (c)	100	12,5,000			1000	
14	7	17	92	-	-	-	0.18	bottom	28.21	8.75	6.26			2.0295	·
5	7	-2	95	-	-	-	0.8	bottom	29.29	8.1	6.37			0.3072	
F	7	-	25	-	ŀ	-	1.72	0.3	31.03	32.6	6.4	•	•		
<u> </u>	,	: [:	g F	-	Ŀ	ŀ	0.3	bottom	28.29	8.28	4.83		٠	0.009	•
e i	,	;	3 8		Ŀ	Ŀ	0.49	hottom	27.9	8.01	2.53			0.04802	
ا و	1	1	n c	- -	1	<u> </u>	2	hottom	27.17	7.83	5.82			0.335	•
F	\	n i	c S	- •	<u>-[·</u>	- -			27.36	α	6.91			0.7965	
12		Ъ	95	-	-[_	66.0	5		,				7700	
13	Ĺ	5	98	1	-	<u>-</u>	0.7	bottom	27.96	7.73	5.52			0.644	
1	ŀ	L	1 2	ŀ	Ŀ	ŀ		hottom	27.25	8.03	6.73		•	•	·
4	1	0 1	G G	- •	- -	1	. 5	To to	29 99	8.05	7.62			0.4704	٠
2		٩	ŝ	-	-	1	3				,			0.04802	
16	7	ß	92	-	-	-	0.49	0.3	28.42	7.75	0.5				
F	,	L.	8	-	-	Ŀ	1.73	0.35	32.19	7.73	1.01	٠	·	0.0099	
		<u>`</u>												Sh	Sheet 3 of 3

Tahle R2	_									
Diel In S	itu D	ata 1	for L	adilba	Diel In Situ Data for Laguna San Jose	g				
Station	Manual D. I.V.					ا				
Tiging.	MOIN	ΛgΩ	i ear	- Be	Temp (C)	PH (STD)	SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	DOSAT (%)	DO (mg/L)	Turb (NTU)
SJ BUOY	8	23	92	1200	30.1	8.1	22851	78.6	5.5	29
SJ_BUOY	8	23	92	1215	30.1	8.1	22862	78.8	5.5	27 B
SJ_BUOY	8	23	92	1230	30.1	8.2	22910	85.7	6 5	28.1
SJ_BUOY	8	23	36	1245	30.1	8.2	22954	88.6	2.0	1.07
SJ_BUOY	8	23	96	1300	30.1	8.2	22976	88.2	5 6	20.7
SJ_BUOY	8	23	96	1315	30.1	8.3	22996	93.9	. G	20.6
SJ_BUOY	8	23	92	1330	30.1	8.3	22990	96.1	6.7	20.62
SJ_BUOY	8	23	92	1345	30.2	8.4	23056	105.2	7.3	30.5
SJ_BUOY	8	23	92	1400	30.1	8.3	23097	100.4	2 -	20.5
SJ_BUOY		23	92	1415	30.1	8.3	23096	94.7	9.9	30.0
SJ_BUOY	8	23	92	1430	30.2	8.4	23044	114.2	7.9	30.1
SJ BUOY	8	23	92	1445	30.2	8.4	23041	111.3	7.7	30.6
SJ_BUOY	®	23	95	1500	30.1	8.4	23013	109.8	7.6	30.1
SJ_BUOY		23	92	1515	30.1	8.4	23021	109.7	7.6	31 5
SJ_BUOY	®	23	92	1530	30.1	8.5	23001	121.6	8.4	30.0
SJ_BUOY	8	23	92	1545	30.1	8.5	22969	128	6.8	29.9
SJ_BUOY	®	23	95	1600	30.1	8.5	23011	123	8.5	30.5
SJ_BUOY	∞	23	95	1615	30.1	8.5	22968	126.9	8.8	31.4
SJ BUOY	∞	23	95	1630	30.1	8.5	22944	127.7	8.9	31.8
SJ BUOY		23	95	1645	30.1	8.5	22999	127.3	8.8	30.7
SJ BUOY	∞	23	95	1700	30.1	8.5	22968	125.5	8.7	30.6
SJ_BUOY	<u>.</u>	23	95	1715	30.1	8.4	23035	118.2	8.2	30.9
SJ BUOY		23	95	1730	30	8.3	22824	106.8	7.4	36.5
									S	Sheet 1 of 9

Turb (NTU)	35.4	34.6	35.7	34.3	34.5	31.8	32.7	34.4	34.5	34.2	34.1	34.6	34.7	35	34.7	34.5	34.7	35.2	34.4	34.5	32.7	33	32.3	33	32.6	Sheet 2 of 9
	36	3,	36	ř	ř	3	33	ř	è	ř	ř	ř	Ď		Ŕ	e e	e	3	3	3	3		3	-	3	Choor
DO (mg/	7.5	8	7.3	7.3	7	9	6.8	7.2	7.1	7.9	7.8	7.7	7.6	7.5	7.5	7.4	7.5	7.4	7.3	7	9	9.9	9	6.4	6.2	
DOSAT (%)	108.2	115.5	105.3	105.6	100.5	86.2	97.6	103.6	102.2	114	112.4	110.4	109.6	108	107.6	106.6	107.1	105.3	105	100.5	86.3	94.6	85.5	91.7	88.7	
SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	22697	22668	22704	22739	22721	22767	22698	22711	22702	22667	22643	22567	22545	22534	22533	22545	22564	22537	22549	22551	22618	22589	22641	22595	22606	
Temp (C) PH (STD)	8.3	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.2	
Temp (C)	29.9	29.9	30	30	30	30	30	30	30	30	29.9	29.9	29.8	29.8	29.8	29.8	29.8	29.8	29.7	29.8	29.8	29.7	29.8	29.7	29.8	
Time	1745	1800	1815	1830	1845	1900	1915	1930	1945	2000	2015	2030	2045	2100	2115	2130	2145	2200	2215	2230	2245	2300	2315	2330	2345	
Year	92	92	92	92	92	92	95	95	95	95	95	95	95	95	95	95	95	92	92	98	92	92	92	92	95	
	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
Month Day	ω	8	8	8	8	8	8	8	8	8	8	8	80	8	8	8	8	8	8	8	8	8	8	8	8	
Station	SJBUOY	SJBUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ BUOY	SJ_BUOY	SJ BUOY																	

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Turb (NTU)	33.1	33.4	33	34.3	32.7	32.4	32.2	26.5	26.8	29.3	29.8	29.8	30	30.5	31.2	31.4	31.7	32.4	32.9	32.3	31.6	32	31.9	33.5	33.7	Sheet 3 of 9
DO (mg/L)	6.4	6.3	6.2	9	2'9	5.8	5.8	2.1	2.3	3.2	5.2	5.2	5.1	4.7	9	2	5.2	5.4	5'5	9'9	5.5	5.4	5.4	2.2	5.2	
DOSAT (%)	91.1	89.5	88.7	85.4	81.8	83.2	82.5	29.8	33.6	45.2	73.7	74.3	73.1	67.6	7.1	70.8	73.5	77.5	78.8	78	78.8	76.6	77.6	73.5	73.6	
SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	22610	22624	22613	22629	22646	22631	22616	22847	22723	22661	22617	22602	22608	22613	22615	22638	22635	22632	22643	22650	22661	22670	22700	22707	22721	
PH (STD)	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.6	7.7	8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.1	
Temp (C)	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30	29.9	29.8	29.6	29.6	29.6	29.6	29.6	29.6	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	
Time	0	15	30	45	100	115	130	145	200	215	230	245	300	315	330	345	400	415	430	445	500	515	530	545	009	
Year	92	95	92	95	92	92	95	92	92	92	92	98	98	92	92	92	92	92	92	92	98	92	92	98	92	
Day	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Month Day	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	SJ_BUOY																									

	-	_	Т.	_	Т	_	_	_	T	_	ī	-			T .	-	T	-	_	_		T	ī		r	-
Turb (NTU)	33.5	33.5	33.6	33.4	33.2	32.4	31	30.4	30.6	30.4	30.2	30.4	31.3	32.1	31.9	29.9	34.3	36.5	34.1	34.4	32.1	37.7	35	34	30	Sheet 4 of 9
DO (mg/L)	5.2	5.2	5.2	4.9	4.8	4.9	4.9	4.6	4.4	5.1	4.6	5	5.1	5.3	4.8	4.4	5	5.8	9	9	6.1	5.9	6.4	6.5	6.3	
DOSAT (%)	74.1	74.7	74.3	70.4	6.89	70.4	6.69	65.6	63.4	72.4	66.1	71.3	72.1	75.4	68.5	62.3	71.5	82.3	86.2	86.3	9.98	83.9	92.4	93.4	90.5	
SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	22732	22722	22728	22737	22759	22759	22781	22798	22807	22810	22824	22791	22744	22749	22712	22714	22642	22613	22609	22599	22624	22584	22595	22628	22755	
PH (STD)	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8	8	8.1	8	8.1	8.1	8.1	8	æ	8.1	8.2	8.3	8.2	8.2	8.1	8.2	8.2	8.2	
Temp (C)	29.5	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.5	29.4	29.4	29.4	29.5	29.5	29.5	29.5	29.6	29.7	29.7	29.7	29.8	29.8	29.8	29.9	
Time	615	630	645	700	715	730	745	800	815	830	845	900	915	930	945	1000	1015	1030	1045	1100	1115	1130	1145	1200	1215	
Year	92	95	92	92	92	92	92	95	95	92	92	92	92	92	92	92	92	92	92	92	92	92	98	92	92	
Day	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Month Day Year	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	SJ_BUOY	

95 1230 29.8 8.2 22764 96 1245 29.8 8.1 22716 95 1300 29.8 8.1 22729 96 1316 29.8 8.1 22695 96 1316 29.9 8.2 22695 96 1410 29.9 8.1 22646 96 1415 29.9 8.1 22646 96 1445 29.9 8.1 22646 96 1445 29.9 8.1 22646 96 1445 29.9 8.1 22786 96 1616 30.1 8.3 22655 96 1616 30.1 8.4 22686 96 1600 30.1 8.4 22686 96 1616 30 8.3 22784 96 1600 30.1 8.3 22944 96 1700 30 8.3 22912	SpCond (Micro Siemens) DOSAT (%) DO (mg/L)
1245 29.8 8.1 1300 29.8 8.1 1315 29.9 8.1 1330 29.9 8.2 1345 29.9 8.1 1400 29.9 8.1 1415 29.9 8.1 1450 30.1 8.3 1500 30.1 8.3 1550 30.1 8.3 1545 30 8.3 1600 30.1 8.3 1615 30 8.3 1620 30.1 8.3 1630 30.1 8.3 1645 30 8.3 1700 30 8.3 1715 30.1 8.3 1745 30 8.3 1745 30 8.3 1200 30.3 8.3 1200 30.3 8.3 1200 30.3 8.3 1200 30.3 8.3 1200 <	22764 92 6.4
1300 29.8 8.1 1315 29.8 8.1 1345 29.9 8.2 1345 29.9 8.2 1400 29.9 8.1 1415 29.9 8.1 1445 29.9 8.2 1500 30.1 8.3 1515 29.9 8.2 1530 30.1 8.3 1600 30.1 8.3 1600 30.1 8.3 1645 30 8.3 1700 30 8.3 1700 30 8.3 1715 30.1 8.3 1745 30 8.3 1745 30 8.3 1745 30 8.3 1720 30.3 8.3 1200 8.3 8.3 1200 8.3 8.3 1745 30 8.3 1200 8.3 8.3 1200 8.	22716 87.7 6.1
1315 29.8 8.1 1330 29.9 8.2 1345 29.9 8.2 1400 29.9 8.1 1416 29.9 8.1 1430 29.9 8.2 1445 29.9 8.2 1500 30.1 8.3 1530 30 8.3 1600 30.1 8.3 1615 30 8.3 1600 30.1 8.3 1645 30 8.3 1700 30 8.3 1700 30 8.3 1715 30.1 8.3 1745 30 8.3 1745 30 8.3 1745 30 8.3 1200 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3 1216 30.3 8.3 1216 30.3 8.4	22729 85.5 6
1330 29.9 8.2 1345 29.9 8.1 1400 29.9 8.1 1415 29.9 8.3 1430 29.9 8.2 1445 29.9 8.2 1500 30.1 8.3 1545 30 8.3 1600 30.1 8.4 1600 30.1 8.3 1615 30 8.3 1625 30 8.3 1700 30 8.3 1700 30 8.3 1745 30 8.3 1745 30 8.3 1745 30 8.3 1745 30 8.3 1200 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3	22695 87.7 6.1
1345 29.9 8.2 1400 29.9 8.1 1415 29.9 8.3 1446 29.9 8.1 1446 29.9 8.2 1500 30.1 8.3 1515 29.9 8.2 1545 30 8.3 1600 30.1 8.4 1615 30 8.3 1630 30.1 8.3 1645 30 8.3 1700 30 8.3 1715 30.1 8.3 1720 30.3 8.3 1200 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3	22663 92.5 6.4
1400 29.9 8.1 1415 29.9 8.3 1430 29.9 8.1 1445 29.9 8.2 1500 30.1 8.3 1515 29.9 8.2 1530 30 8.3 1600 30.1 8.4 1615 30 8.3 1630 30.1 8.3 1645 30 8.3 1700 30 8.3 1715 30.1 8.3 1720 30.3 8.3 1200 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3	22652 99.4 6.9
1415 29.9 8.3 1446 29.9 8.1 1445 29.9 8.1 1500 30.1 8.3 1515 29.9 8.2 1530 30 8.3 1600 30.1 8.4 1615 30 8.3 1630 30 8.3 1700 30.1 8.3 1715 30.1 8.3 1720 30.3 8.3 1200 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3 1210 30.3 8.3 1230 30.3 8.5	22646 94.2 6.6
1430 29.9 8.1 1445 29.9 8.2 1500 30.1 8.3 1515 29.9 8.2 1530 30 8.2 1546 30 8.3 1615 30 8.3 1630 30 8.3 1700 30 8.3 1745 30 8.3 1200 30.3 8.3 1215 30.3 8.3 1230 30.3 8.3 1230 30.3 8.5	22651 108.5 7.6
1445 29.9 8.2 1500 30.1 8.3 1515 29.9 8.2 1530 30 8.2 1545 30 8.3 1615 30 8.3 1630 30 8.3 1700 30 8.3 1745 30 8.3 1200 30.3 8.3 1215 30.3 8.3 1230 30.3 8.4	22758 89.1 6.2
1500 30.1 8.3 1515 29.9 8.2 1530 30 8.2 1545 30 8.3 1600 30.1 8.3 1615 30 8.3 1630 30 8.3 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1200 30.3 8.3 1215 30.3 8.3 1230 30.3 8.5	22725 88.9 6.2
1515 29.9 8.2 1530 30 8.3 1545 30 8.3 1600 30.1 8.4 1615 30 8.3 1630 30 8.3 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22655 104.1 7.2
1530 30 8.2 1545 30 8.3 1600 30.1 8.4 1615 30 8.3 1630 30 8.3 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.4	22684 96.3 6.7
1545 30 8.3 1600 30.1 8.4 1615 30 8.3 1630 30 8.3 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1200 30.3 8.3 1215 30.3 8.3 1230 30.3 8.5	22673 100.5 7
1600 30.1 8.4 1615 30 8.3 1630 30 8.3 1645 30 8.4 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22719 111.7 7.8
1615 30 8.3 1645 30 8.4 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1745 30 8.3 1200 30.3 8.3 1216 30.3 8.4 1230 30.3 8.5	122.3 8.5
1630 30 8.3 1645 30 8.4 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22784 104.6 7.3
1645 30 8.4 1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1200 30.3 8.4 1230 30.3 8.5	22854 108.2 7.5
1700 30 8.3 1715 30.1 8.3 1730 30 8.3 1745 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22855 117.5 8.2
1715 30.1 8.3 1730 30 8.3 1745 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22912 106.8 7.4
1730 30 8.3 1745 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22944 106 7.3
1745 30 8.3 1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22871 112.4 7.8
1200 30.3 8.3 1215 30.3 8.4 1230 30.3 8.5	22798 113.3 7.9
1215 30.3 8.4 1230 30.3 8.5	23260 80.2 5.5
1230 30.3 8.5	23158 100.8 7
	23153 103.5 7.1

89.8 89.8 91.4 92.7
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23514 88.3
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23692 81.8
23716 83.8
23686 83.9
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23694 87.9
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8 23 95 1900 30.4 8.2 8 23 95 1915 30.4 8.1 8 23 95 1945 30.4 7.9 8 23 95 1945 30.4 8.2 8 23 95 2000 30.5 8.2 8 23 95 2016 30.4 8.3 8 23 95 2010 30.3 8.2 8 23 95 2115 30.2 8.2 8 23 95 2100 30.3 8.2 8 23 95 2145 30.2 8.2 8 23 95 2200 30.2 8.2 8 23 95 2215 30.1 7.8 8 23 95 2230 30.1 8.1 8 23 95 230 30.1 8.1 8 23<	23774 67.9 4.7 7.5 23772 66.4 4.6 6.2 23709 54.9 3.8 4.4 23709 54.9 3.8 4.4 23463 84.5 5.8 10 23427 84.6 5.8 10.5 23343 86.9 6 10.2 23396 88.8 6.1 8.5 23408 82.9 5.7 7.1 23408 82.9 5.7 7.1 23407 77.8 5.8 10.2 23419 86 5.9 10.2 23361 30 2.1 0
8 23 95 1915 30.4 8.1 8 23 95 1930 30.4 7.9 8 23 95 1945 30.4 7.9 8 23 95 2000 30.5 8.2 8 23 95 2015 30.4 8.3 8 23 95 2016 30.2 8.2 8 23 95 2115 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2200 30.2 8.2 8 23 95 220 30.1 7.6 8 23 95 220 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 230 30.1 8.1 8 23 <td>66.4 4.6 54.9 3.8 78.5 5.4 84.5 5.8 84.6 5.8 86.9 6 88.8 6.1 84.7 5.8 82.9 5.7 86.9 5.7 77.8 5.4 30 2.1</td>	66.4 4.6 54.9 3.8 78.5 5.4 84.5 5.8 84.6 5.8 86.9 6 88.8 6.1 84.7 5.8 82.9 5.7 86.9 5.7 77.8 5.4 30 2.1
8 23 95 1930 30.4 7.9 8 23 95 1945 30.4 8.2 8 23 95 2000 30.5 8.2 8 23 95 2015 30.4 8.2 8 23 95 2045 30.2 8.3 8 23 95 2100 30.3 8.2 8 23 95 2145 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2200 30.2 8.2 8 23 95 2200 30.1 7.6 8 23 95 2215 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23	54.9 3.8 78.5 5.4 84.5 5.8 84.6 5.8 86.9 6 84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1 37.4 2.6
8 23 95 1945 30.4 8.2 8 23 95 2000 30.5 8.2 8 23 95 2015 30.4 8.2 8 23 95 2030 30.4 8.3 8 23 95 2045 30.2 8.3 8 23 95 2115 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2200 30.2 8.2 8 23 95 2215 30.1 7.6 8 23 95 2215 30.1 7.6 8 23 95 2245 30.1 8.1 8 23 95 2245 30.1 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23	78.5 5.4 84.5 5.8 84.6 5.8 86.9 6 84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1 37.4 2.6
8 23 95 2000 30.5 8.2 8 23 95 2015 30.4 8.2 8 23 95 2030 30.4 8.3 8 23 95 2045 30.2 8.3 8 23 95 2105 30.3 8.2 8 23 95 2145 30.2 8.2 8 23 95 2145 30.2 8 8 23 95 2216 30.1 7.6 8 23 95 2245 30.1 7.8 8 23 95 2245 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 </td <td>84.5 5.8 84.6 5.8 86.9 6 88.8 6.1 84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1 37.4 2.6</td>	84.5 5.8 84.6 5.8 86.9 6 88.8 6.1 84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1 37.4 2.6
8 23 95 2015 30.4 8.2 8 23 95 2030 30.4 8.3 8 23 95 2045 30.2 8.3 8 23 95 2100 30.3 8.2 8 23 95 2115 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2216 30.1 7.6 8 23 95 2215 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2245 30.1 8.1 8 23 95 2345 30.1 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23	84.6 5.8 86.9 6 88.8 6.1 84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1
8 23 95 2030 30.4 8.3 8 23 95 2045 30.2 8.3 8 23 95 2100 30.3 8.2 8 23 95 2115 30.2 8.2 8 23 95 2146 30.2 8.2 8 23 95 2216 30.1 7.6 8 23 95 2215 30.1 7.6 8 23 96 2245 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2345 30.1 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23	86.9 6 88.8 6.1 84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1
8 23 95 2045 30.2 8.3 8 23 95 2100 30.3 8.2 8 23 95 2115 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2215 30.1 7.6 8 23 95 2245 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2315 29.9 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1	88.8 6.1 84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1
8 23 95 2100 30.3 8.2 8 23 95 2115 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2200 30.1 7.6 8 23 95 2245 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2315 29.9 8.1 8 23 95 2315 29.9 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1	84.7 5.8 82.9 5.7 86 5.9 77.8 5.4 30 2.1
8 23 95 2115 30.2 8.2 8 23 95 2130 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2200 30.2 8 8 23 95 2215 30.1 7.6 8 23 95 2245 30.1 7.8 8 23 95 2315 29.9 8.1 8 23 95 2315 29.9 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1	82.9 5.7 86 5.9 77.8 5.4 30 2.1 37.4 2.6
8 23 95 2130 30.2 8.2 8 23 95 2145 30.2 8.2 8 23 95 2200 30.2 8 8 23 95 2215 30.1 7.6 8 23 95 2245 30.1 7.8 8 23 95 2300 30.1 8.1 8 23 95 2315 29.9 8.1 8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1	86 5.9 77.8 5.4 30 2.1 37.4 2.6
8 23 95 2145 30.2 8.2 8 23 95 2200 30.2 8 8 23 95 2215 30.1 7.6 8 23 95 2245 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2315 29.9 8.1 8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1	77.8 30 37.4
8 23 95 2200 30.2 8 8 23 95 2215 30.1 7.6 8 23 95 2230 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2300 30 8.1 8 23 95 2315 29.9 8.1 8 23 95 2345 30.2 8.1 8 23 95 2345 30.2 8.1	30
8 23 95 2215 30.1 7.6 8 23 95 2230 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2300 30 8.1 8 23 95 2315 29.9 8.1 8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1	37.4
8 23 95 2230 30.1 7.8 8 23 95 2245 30.1 8.1 8 23 95 2300 30 8.1 8 23 95 2315 29.9 8.1 8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1	
8 23 95 2245 30.1 8.1 8 23 95 2300 30 8.1 8 23 95 2315 29.9 8.1 8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1	23257 53.8 3.7
8 23 95 2300 30 8.1 8 23 95 2315 29.9 8.1 8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1	23198 66.8 4.6 11.6
8 23 95 2315 29.9 8.1 8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1	23096 70.1 4.9
8 23 95 2330 30.2 8.1 8 23 95 2345 30.2 8.1	23094 70.7 4.9
8 23 95 2345 30.2 8.1	23133 72.4 5
	23178 72.8 5
30.2 8 24 95 0 30.2 8.1 2	23220 71 4.9 5.8
SJ_DOCK 8 24 95 15 30.3 8.1 2	23239 69 4.8 6.5
SJ_DOCK 8 24 95 30 30.2 8.1 2	23300 67.4 4.7 5.7
SJ_DOCK 8 24 95 45 30.1 8 2	23352 62.8 4.3 9.7
SJ_DOCK 8 24 95 100 29.9 7.9 2	23218 45.9 3.2 11.6
	Sheet 7 of 9

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Turb (NTU)	10.3	5.8	10.8	5.8	18	8.1	6.9	8.2	7.2	6.9	5.3	6.7	6.1	9.5	6.5	6.7	7.3	5.6	5.3	10.7	10.9	6.3	8.8	7.5	6.7	
DO (mg/L)	3.8	4	4.3	3.1	3.9	4.2	4.4	3.8	4.1	4.2	4.3	4.1	3.8	3.1	3.5	3.9	2.6	3	3.1	2.9	2.2	2.1	2.4	7	2	
DOSAT (%)	54.2	56.8	61.6	44.3	55.3	59.6	63.6	55.2	58.5	59.6	61.2	58.9	53.7	44	49.6	55.8	37.5	42.8	43.9	41.6	31.2	30.2	33.7	28.3	28.8	
PH (STD) SpCond (Micro Siemens) DOSAT (%) DO (mg/L)	23101	23007	23028	22962	22978	23038	23087	23100	23028	23101	23053	23054	23143	23052	22948	23005	22969	22968	22908	22905	22935	22850	22905	22869	22916	
PH (STD)	7.9	7.9	8	7.9	8	8	8	7.9	8	8	8	8	8	7.8	6.7	8	7.9	7.8	7.8	7.8	7.8	7.7	7.8	7.8	7.7	
Temp (C)	29.8	29.8	29.7	29.6	29.7	29.7	29.9	29.8	29.9	29.6	29.5	29.6	29.6	29.6	29.6	29.6	29.5	29.4	29.4	29.4	29.4	29.3	29.4	29.4	29.3	
Time	115	130	145	200	215	230	245	300	315	330	345	400	415	430	445	200	515	530	545	009	615	930	645	700	715	
Year	95	95	95	92	95	95	95	92	95	95	92	98	95	95	95	95	95	95	95	92	95	92	95	95	92	
Day	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Month	8	80	8	8	∞	8	8	®	8	8	8		∞	8	8	8	ω	∞	<u>_</u>	8	ω	00	8	· ·	00	,
Station	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	S.J DOCK	SJ DOCK	SJ DOCK	SJ DOCK	SJ DOCK	S.J DOCK	SJ DOCK	SJ DOCK	S. DOCK	;							

SDOCK 8 24 95 730 29.3 7.5 22 SDOCK 8 24 95 745 29.3 7.6 22 SDOCK 8 24 95 815 29.3 7.6 22 SDOCK 8 24 95 815 29.4 8 22 SDOCK 8 24 95 845 29.4 7.8 22	22876 18.6 22870 27.8 22880 39.7 22923 65.8 22927 63.8
8 24 95 745 29.3 7.6 8 24 95 800 29.3 7.6 8 24 95 815 29.4 8 8 24 95 845 29.4 8	22870 27.8 2 22880 39.7 2.8 22923 65.8 4.6 22927 63.8 4.5
8 24 95 800 29.3 7.6 8 24 95 815 29.4 8 8 24 95 830 29.4 8 8 24 95 845 29.4 7.8	22880 39.7 2.8 22923 65.8 4.6 22927 63.8 4.5
8 24 95 815 29.4 8 8 24 95 830 29.4 8 8 24 95 845 29.4 7.8	22923 65.8 4.6 22927 63.8 4.5
8 24 95 830 29.4 8 8 24 95 845 29.4 7.8	22927 63.8 4.5
8 24 95 845 29.4 7.8	
	7.8 22887 47.3 3.3 5.7
SJ_DOCK 8 24 95 900 29.4 7.9 22	7.9 22747 61.7 4.3 3.8
SJ_DOCK 8 24 95 915 29.4 8 22	8 22756 67 4.7 5.9
	Sheet 9 of 9

Appendix C Water Chemistry and Biological Data for Tributary and OpenWater Sampling Stations

Nitrogen Concentrations for Tributary Sampling Locations Station Month Day Veat Time Type Event Rep Split NO3N (mg/L) NH3N (mg/L) TKN (mg/L) DTKN (mg/L) DT	Table C1	ဌ											
Day Year Time Type Event Rep Split MO3N (mg/L) MH3N (mg/L) TKN (mg/L) 5 95 1 1 1 0.54 0.48 0.56 1 95 1 1 1 0.05 1.2 0.05 1 95 1 1 1 0.041 0.19 0.034 1 95 1 1 1 0.01 0.03 0.03 1 95 1 1 1 0.02 1.3 1.2 1 95 1 1 1 0.02 0.37 0.19 1 95 1 1 1 0.23 0.37 0.19 1 96 1 1 1 0.23 0.37 0.19 1 96 1 1 1 0.024 1.3 <	Nitrog	len Cor	ncent	ratior	s for	Tribu	tary S	amp	ling L	ocations			
7 6 96 1 1 0.54 0.48 0.65 7 17 95 1 1 0.2 1.2 0.81 7 6 95 1 1 0.2 1.2 0.81 7 17 95 1 1 0.1 0.1 0.2 0.32 0.34 7 17 95 1 1 0.1 0.2 1.3 1.2 7 17 95 1 1 0.01 0.2 1.3 1.2 7 17 95 1 1 1 0.05 0.37 0.19 7 17 95 1 1 1 0.05 0.3 0.13 7 1 1 1 1 0.01 0.24 1.3 1.3 7 1 2 1 1 1 </th <th>Station</th> <th>Month</th> <th>Day</th> <th></th> <th>Time</th> <th>Type</th> <th>Event</th> <th>Rep</th> <th></th> <th>NO3N (mg/L)</th> <th>NH3N (mg/L)</th> <th>TKN (mg/L)</th> <th>DTKN (mg/L)</th>	Station	Month	Day		Time	Type	Event	Rep		NO3N (mg/L)	NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
7 17 95 1 1 1 1 0.1 0.2 1.2 0.81 7 1 1 1 1 0.19 0.09 0.34 7 1 95 1 1 0.01 0.02 0.03 0.33 0.32 7 1 96 1 1 1 0.02 0.13 0.19 0.32 7 1 96 1 1 1 0.02 0.37 0.19 0.19 7 1 96 1 1 1 0.02 0.7 0.65 0.19 7 1 96 1 1 1 0.08 5.5 1.3 1.3 7 1 1 1 1 1 1 1 <td>티</td> <td>7</td> <td>5</td> <td>92</td> <td></td> <td>1</td> <td></td> <td>1</td> <td>-</td> <td>0.54</td> <td>0.48</td> <td>0.55</td> <td>0.36</td>	티	7	5	92		1		1	-	0.54	0.48	0.55	0.36
7 5 95 . 1 1 1 0.41 0.19 0.34 7 17 96 . 1 1 1 0.01 0.2 0.32 7 15 95 . 1 1 1 0.02 1.3 1.2 7 17 95 . 1 1 1 0.02 1.3 1.2 7 17 95 . 1 1 1 0.65 9.3 0.37 0.19 7 17 95 . 1 1 1 0.65 0.37 0.19 7 17 95 . 1 1 1 0.05 0.7 0.65 7 17 95 . 1 1 1 0.01 0.24 1.3 1.1 7 17 95 . 1 1 1 0.01 0.24 1.3 8	되	7	1	92	•	1		1	-	0.2	1.2	0.81	0.53
7 17 95 1 1 1	T-2	7	2	92		1		F	-	0.41	0.19	0.34	0.29
7 5 96 1 1 1 1 1 1 1 1 1 1 1 1 1 1 9.3 9.3 9.3 9.3 9.3 9.3 9.	T-2	7	17	92		1		F	-	0.1	0.2	0.32	0.27
7 17 95 1 1 1 0.65 5.3 2.8 7 5 95 1 1 1 0.63 0.37 0.19 7 17 95 1 1 1 0.23 0.37 0.19 7 17 95 1 1 1 0.024 1.9 0.7 0.65 7 17 95 1 1 1 0.024 1.9 1.3 0.8 7 17 95 1 1 1 0.00 2.4 1.3 2.8 7 17 95 1 1 1 0.01 4.2 2.5 7 17 95 1 1 1 0.01 0.06 0.06 0.8 8	<u>ت</u>	7	5	92		-		-	-	0.2	1.3	1.2	0.87
7 5 96 . 1 1 1 1 0.23 0.37 0.19 7 17 96 . 1 1 1 0.69 0.7 0.65 7 5 96 . 1 1 1 0.04 1.9 1.3 7 17 96 . 1 1 1 0.087 1.1 7 17 96 . 1 1 1 0.087 1.1 7 17 96 . 1 1 1 0.01 0.87 1.1 7 17 96 . 1 1 1 0 2.5 1.5 7 17 96 . 1 1 1 0.01 4.2 2.5 7 1 1 . 1 1 0.01 0.06 0.06 0.91 8 6 96 12.00 <td< td=""><td>T-3</td><td>7</td><td>17</td><td>92</td><td></td><td>-</td><td>•</td><td>-</td><td>ı.</td><td>0.52</td><td>5.3</td><td>2.8</td><td>2.5</td></td<>	T-3	7	17	92		-	•	-	ı.	0.52	5.3	2.8	2.5
7 17 95 1 1 1 1 0.59 0.7 0.65 7 15 95 1 1 1 0.24 1.9 1.3 7 17 95 1 1 1 0.08 5.5 2.8 7 17 95 1 1 1 0.01 0.87 1.1 7 17 95 1 1 1 0.01 2.4 1.3 7 17 95 1 1 1 0.01 4.2 2.5 7 17 95 1 1 1 0.01 4.2 2.5 7 17 95 1 1 1 0.01 4.2 2.5 8 6 95 12.00 2 1 1 0.01 0.06 0.06 0.82 8 <td>T-4</td> <td>7</td> <td>5</td> <td>95</td> <td>٠</td> <td>1</td> <td></td> <td>-</td> <td>-</td> <td>0.23</td> <td>0.37</td> <td>0.19</td> <td>0.29</td>	T-4	7	5	95	٠	1		-	-	0.23	0.37	0.19	0.29
7 5 95 . 1 . 1 1 0.24 1.9 1.3 7 17 95 . 1 . 1 0 0.04 5.5 2.8 7 17 95 . 1 . 1 0 2.4 1.1 7 17 95 . 1 . 1 0 2.4 1.3 7 17 95 . 1 . 2 1 0 2.4 1.3 7 17 95 . 1 . 1 0 0.01 4.2 2.5 7 17 95 . 1 1 1 0.01 4.2 2.5 7 17 95 . 1 1 1 0.01 0.06 0.82 8 6 95 1200 2 1 1 0.9 2.4 3.5	1-4	7	17	92		1		-	-	0.59	0.7	0.65	0.49
7 17 95 . 1 1 1 0.08 5.5 2.8 7 5 95 . 1 1 0 0.01 0.87 1.1 7 17 95 . 1 1 1 0 2.4 1.3 7 17 95 . 1 2 1 0 2.5 1.5 7 17 95 . 1 1 0 0.01 4.2 2.5 7 17 95 . 1 1 0.01 4.2 2.5 7 17 95 . 1 1 1 0.01 0.06 0.96 8 6 95 1230 2 1 1 0.87 2.98 2.7 8 6 95 1300 2 2 1 1 0.13 2.4 3.5 8 6 95 13	T-5	7	5	92		1	·	1	-	0.24	1.9	1.3	1.1
7 5 95 1 1 1 0.01 0.87 1.1 7 17 95 1 1 1 0 2.4 1.3 7 17 95 1 1 0 2.5 1.5 7 17 95 1 1 1 0.01 4.2 2.5 7 17 95 1 1 1 0.01 4.2 2.5 7 17 95 1 1 1 0.01 1.3 0.91 8 6 95 1200 2 2 1 1 0.05 0.06 0.06 0.82 8 6 95 1230 2 1 1 0.12 2.4 3.5 8 6 95 1300 2 2 1 1 0.19	T-5	7	17	95		-		1	-	0.08	5.5	2.8	2.7
7 17 95 1 1 0 2.4 1.3 7 17 95 1 2 1 0 2.5 1.5 7 1 95 1 1 0.01 4.2 2.5 1.5 7 17 95 1 1 0.01 0.06 0.06 1.4 7 17 95 1 1 0 0.06 0.06 0.82 8 6 95 1230 2 1 1 0.87 2.98 2.7 8 6 95 1300 2 2 1 1 0.12 2.4 3.5 8 6 95 1300 2 2 1 1 0.19 2.57 2.9	T-6	7	2	95		-		1	-	0.01	0.87	1.1	0.68
7 17 95 1 2 1 0.01 2.5 1.5 7 15 95 1 1 1 0.01 4.2 2.5 7 17 95 1 1 1 0.01 0.06 1.4 7 17 95 1 1 0 0.06 1.4 8 6 95 1230 2 2 1 1 0.87 2.98 2.7 8 6 95 1300 2 2 1 1 0.12 2.4 3.5 8 6 95 1300 2 2 1 1 0.19 2.57 2.9	1-6	7	1	95	·	-	•	1	1	0	2.4	1.3	1.3
7 5 96 1 1 1 0.01 4.2 2.5 7 17 95 1 1 1 0.01 1.3 0.91 7 17 95 1 1 1 0.06 1.4 8 6 95 1230 2 1 1 0.87 2.98 2.7 8 6 95 1300 2 2 1 1 1.2 2.98 2.7 8 6 95 1300 2 2 1 1 0.99 2.57 2.99	T-6	7	11	95	·	-	·	2	1	0	2.5	1.5	1.2
7 17 95 . 1 1 1 0.01 1.3 0.91 7 5 95 . 1 1 1 0.01 0.06 1.4 8 6 95 1200 2 2 1 1 0.87 2.98 2.7 8 6 95 1300 2 2 1 1 1.2 2.4 3.5 8 6 95 1300 2 2 1 1 0.19 2.57 2.9	T-7	7	2	92	·	-		1	1	0.01	4.2	2.5	1.7
7 5 95 1 1 1 0.01 0.06 1.4 8 6 95 1200 2 2 1 1 0 0.06 0.08 0.82 8 6 95 1230 2 1 1 0.87 2.98 2.7 8 6 95 1300 2 2 1 1 1.2 2.4 3.5 8 6 95 1300 2 2 1 1 0.19 2.57 2.9	T-7	7	-	92		-	•	-	1	0.01	1.3	0.91	0.71
7 17 95 . 1 1 0 0.06 0.08 0.82 8 6 95 1200 2 2 1 1 0.87 2.98 2.7 8 6 95 1230 2 1 1 1.2 2.4 3.5 8 6 95 1300 2 2 1 1 0.19 2.57 2.9	T-8	7	2	95	·	-	•	1	1	0.01	90.0	1.4	9.0
8 6 95 1200 2 2 1 1 0.87 2.98 2.7 8 6 95 1230 2 2 1 1 1 2.4 3.5 8 6 95 1300 2 2 1 1 1 0.19 2.57 2.9	T-8	7	-1	95		1		-	1	0	90.0	0.82	0.79
8 6 95 1230 2 2 1 1 1.2 2.4 3.5 8 6 95 1300 2 2 1 1 0.19 2.57 2.9	T-3	8	9	92	1200	2	2	-	-	0.87	2.98	2.7	•
8 6 95 1300 2 2 1 1 0 0.19 2.57 2.9	7.3	8	9	92	1230	2	2	1	1	1.2	2.4	3.5	
Sheet 1 of 4	T-3	8	9	92	1300	2	2	-	-	0.19	2.57	2.9	•
													Sheet 1 of 4

Station	Station Month	Day	Year	Time	Type	Type Event	Rep	Split	NO3N (mg/L)	NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
T-3	8	9	96	1330	2	2	-	-	0.25	0.32	1.1	•
T-3	8	9	92	1400	2	2	-	1	0.31	0.4	0.7	•
T-3	8	9	95	1400	2	2	-	2	0.28	0.16	0.8	
7.3	8	9	95	1500	2	2	-	-	0.29	1.8	2.3	•
T-3	8	9	95	1600	2	2	-	-	0.23	1.3	1.4	•
13	8	9	95	1700	2	2	-	-	0.27	1.4	1.2	
1-3	8	9	95	1800	2	2	-	-	0.3	1.3	1.7	
E.	8	9	95	1900	2	2	-	-	1.2	1.1	1.6	•
13	8	9	95	2000	2	2	-	-	0.71	1.6	1.6	•
ا ا	8	12	95	1600	2	4	-	_	1.4	1.6	1.2	٠
۳. ا	8	18	95	800	2	4	-	_	0.45	0.52	0.85	٠
F.	8	18	95	1400	2	4	-	-	0.46	0.58	0.79	
13	8	120	95	2000	2	4	-	-	0.48	0.74	1.4	
13	8	18	95	2300	2	4	-	-	0.45	0.74	0.76	•
<u>ا</u>	8	100	95	800	2	4	Ŀ	-	0.49	0.59	0.73	•
T-3	80	19	95	800	2	4	-	2	0.47	0.62	0.62	
F 23	8	19	95	1200	2	4	-	-	0.49	0.73	0.75	
133	8	19	92	1600	2	4	_	-	0.5	0.87	96.0	٠
<u>ا</u>	8	19	95	2000	7	4	-	-	0.52	0.78	0.86	٠
1-3	8	2	95	800	2	4	-	1	1.4	1.4	-	•
4-⊤	7	14	95	1500	2	-	1	1	0.4	0.7	0.62	
1-4	7	14	95	1530	2	-	_	-	0.44	0.11	0.08	•
												Sheet 2 of 4

Year Time	Time	۲	Type Event Rep	It Rep	Split	NO3N (mg/L)	NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
14 95 1600 2 1 1	4	-	긔	- 1	-	0.47	0.19	0.14	
14 95 1630 2 1 1	_	-		- 1	1	0.46	0.25	0.26	
14 95 1700 2 1 1	2	1	_		1	0.51	0.45	0.43	•
14 95 1730 2 1	_	-	_	-	1	0.53	0.2	0.14	
14 95 1800 2 1		1	-	-	1	0.56	0.23	0.03	
14 95 1800 2 1		1	_	-	2	0.58	0.25	0.02	
17 95 900 2 3	2	3		-	-	1.3	0.46	0.55	
17 95 1500 2 3	2	3		1	1	0.84	0.24	0.27	•
17 95 2100 2 3	2	3		-	1	1.1	0.29	0.47	
18 95 600 2 3	2	3		1	-	1.2	0.25	0.53	•
18 95 1200 2 3	2	3		1	1	1.2	0.28	0.38	
18 95 1700 2 3	2	3		1	-	1.2	0.27	0.56	•
18 95 2200 2 3	2	3	_	1	1	1.1	0.3	0.41	
18 95 2200 2 3	2	3	-	1	2	1.1	0.24	0.46	
19 95 0 2 3	2	8		1		1.2	0.21	0.64	
19 95 600 2 3	2	3		-	-	1	0.57	1	
19 95 1000 2 3	2	3		-	-	1	0.49	0.74	
19 95 1400 2 3	2	3	_	-	-	0.97	0.62	0.49	
19 95 1800 2 3	2	3		1	1	1	0.57	0.77	
19 95 2200 2 3	2	3	_	1	1	96.0	0.56	0.76	
20 95 0 2 3	2	3		Ţ	1	1	0.54	0.71	
20 95 600 2 3	2	3	$\overline{}$	-	-	1.2	0.33	0.5	
									Sheet 3 of 4

Station Month	Day	Year	Time	Type	Type Event Rep	Rep	Split	NO3N (mg/L)	NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
8	20	92	009	2	က	-	2	1.2	0.34	0.43	•
8	20	98	1000	2	က	1	-	1.2	0.4	0.27	٠
6	-	92	1400	2	5	1	1	0.94	69.0	0.8	•
6	-	92	1430	2	5	1	1	0.48	0.54	0.7	•
6	-	92	1430	2	5	1	2	9.0	0.58	0.7	٠
6	-	95	1500	2	5	ı	ı	0.58	0.55	9.0	•
6	-	92	1530	2	2	1	ı	0.71	0.47	9.0	•
6	-	92	1600	2	9	ı	ı	0.57	0.32	0.5	•
6	-	92	1630	2	5	1	ı	0.61	0.23	0.4	٠
6	-	95	1700	.2	5	1	1	0.58	0.2	0.3	•
6	_	92	1800	2	5	ı	1	0.54	0.24	0.3	•
6	-	92	1900	2	2	-	1	0.62	0.22	0.5	٠
6	-	92	2000	2	9	١	1	9.0	0.25	0.3	•
6	-	92	2100	2	9	١	1	0.59	0.28	0.3	٠
6	2	92	009	7	2	1	1	0.74	0.42	0.4	•
											Sheet 4 of 4

Table C2	C2											
Phospt	Phosphorus Concentrations for Tributary Sampling Stations	oncen	tration	ns for	Tribu	tary S	ampl	ing S	tations			
Station	Month	Day	Year	Time	Type	Type Event	Rep	Split	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
1-1	7	2	92		1		1	-	0.185	0.17	0.154	0.112
T-1	7	17	92	·	1		-	-	0.315	0.256	0.231	0.223
T-2	7	5	95		1		-	-	0.665	0.772	0.118	0.08
T-2	7	17	98		-		-	-	0.14	0.143	0.059	0.028
T-3	7	5	92	·	-		-	-	0.535	0.345	0.28	0.227
±-3	7	17	95	•	1		-	-	0.595	0.433	0.049	0.374
T-4	7	5	92		1		-	-	0.258	0.26	0.155	0.17
T-4	7	17	92	•	1		-	-	0.193	0.234	0.154	0.139
T-5	7	5	98		1		1	-	0.325	0.255	0.168	0.188
T-5	7	17	92		1		1	-	0.527	0.382	0.29	0.331
9-L	7	2	92	·	1	·	-	1	0.298	0.232	0.08	0.192
1-6	7	2	95		-		-	-	0.539	0.488	0.341	0.317
T-6	7	1	95		-	·	2	1	0.539	0.462	0.362	0.323
T-7	7	2	95		-	·	1	1	0.74	0.605	0.358	0.298
T-7	7	1	95	•	-	·	-	1	0.496	0.414	0.152	0.328
T-8	7	5	95	-	-		1	1	1.49	1.24	0.858	99.0
T-8	7	17	92	·	-	·	1	1	1.94	1.6	1.12	0.314
T-3	8	9	95	1200	2	2	1	-	0.48	-	0.265	
T-3	8	9	95	1230	2	2	1	1	0.408		0.245	
T-3	8	9	95	1300	2	2	1	-	1.42		0.355	
												sheet 1 of 4

8 6 95 1330 2 2 1 1 0.46 0.175 8 6 95 1400 2 2 1 1 0.702 0.176 8 6 95 1400 2 2 1 1 0.702 0.18 8 6 95 1400 2 2 1 1 0.74 0.18 8 6 95 1600 2 2 1 1 0.74 0.18 8 6 95 1600 2 2 1 1 0.745 0.045 8 6 95 1800 2 2 1 1 0.45 0.145 8 18 95 1400 2 4 1 1 0.245 0.145 8 18 95 1400 2	Station	Month	Dav	Year	Time	T ype	Type Event	Rep	Split	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
8 6 95 1400 2 2 1 1 0.702 0.176 8 6 95 1400 2 2 1 2 0.702 0.118 8 6 95 1400 2 2 1 1 0.74 0.118 8 6 95 1500 2 2 1 1 0.74 0.716 8 6 95 1500 2 2 1 1 0.425 0.015 8 6 95 1500 2 2 1 1 0.425 0.145 8 6 95 1500 2 2 1 1 0.425 0.145 8 6 95 1500 2 2 1 1 0.425 0.145 9 15 1500 2 4	1-3	8	9	95	1330	7	2	-	-	0.46		0.1	
8 6 95 1400 2 2 1 2 0.702 0.118 8 6 95 1500 2 2 1 1 0.74 0.16 8 6 95 1500 2 2 1 1 0.6 0.715 8 6 95 1700 2 2 1 1 0.6 0.015 8 6 95 1800 2 2 1 1 0.425 0.082 8 6 95 1800 2 2 1 1 0.425 0.045 8 6 95 1800 2 2 1 1 0.425 0.145 9 6 95 1800 2 4 1 0.316 0.145 1 8 18 95 2000 2	133	8	9	95	1400	2	2	1	-	0.702	٠	0.175	
8 6 95 1500 2 2 1 1 0.74 0.76 8 6 95 1600 2 2 1 1 0.6 0.215 8 6 95 1700 2 2 1 1 0.378 0.082 8 6 95 1700 2 2 1 1 0.425 0.012 8 6 95 1800 2 2 1 1 0.425 0.145 8 6 95 1800 2 2 1 1 0.425 0.145 9 17 95 1600 2 2 1 1 0.315 0.145 9 18 95 1400 2 4 1 1 0.328 0.144 9 18 18 10 2	13	80	9	95	1400	2	2	-	2	0.702	-	0.118	
8 6 95 1600 2 2 1 1 0.6 0.215 8 6 95 1700 2 2 1 1 0.378 0.082 8 6 95 1800 2 2 1 1 0.425 0.082 8 6 95 1800 2 2 1 1 0.425 0.145 8 6 95 1800 2 2 1 1 0.215 0.145 8 18 95 1600 2 4 1 1 0.215 0.133 9 18 95 1400 2 4 1 1 0.268 0.133 9 18 95 2000 2 4 1 1 0.328 0.144 9 18 19 95 100 <td>133</td> <td>8</td> <td>9</td> <td>95</td> <td>1500</td> <td>2</td> <td>2</td> <td>-</td> <td>1</td> <td>0.74</td> <td>٠</td> <td>0.76</td> <td></td>	133	8	9	95	1500	2	2	-	1	0.74	٠	0.76	
8 6 95 1700 2 2 1 1 0.378 0.082 8 6 95 1800 2 2 1 1 0.425 0.145 8 6 95 1800 2 2 1 1 0.425 0.145 8 6 95 1800 2 4 1 1 0.215 0.045 8 18 95 1400 2 4 1 1 0.215 0.137 9 18 95 1400 2 4 1 1 0.216 0.137 9 18 95 1400 2 4 1 1 0.268 0.135 9 18 18 95 2000 2 4 1 1 0.262 0.136 9 19 10 2 <td><u>ال</u></td> <td>8</td> <td>မ</td> <td>95</td> <td>1600</td> <td>2</td> <td>2</td> <td>٦</td> <td>ı</td> <td>9.0</td> <td>•</td> <td>0.215</td> <td></td>	<u>ال</u>	8	မ	95	1600	2	2	٦	ı	9.0	•	0.215	
8 6 95 1800 2 2 1 1 0.425 . 0.12 8 6 95 1800 2 2 1 1 0.315 . 0.145 8 6 95 1900 2 4 1 1 0.215 . 0.045 8 17 95 1600 2 4 1 1 0.216 . 0.045 8 18 95 1400 2 4 1 1 0.208 . 0.037 8 18 95 1400 2 4 1 1 0.208 . 0.037 8 18 95 2000 2 4 1 1 0.356 . 0.108 8 19 95 2000 2 4 1 1 0.262 . 0.146 8 19 95 1000 2 <th< td=""><td>13</td><td></td><td>9</td><td>95</td><td>1700</td><td>2</td><td>2</td><td>-</td><td>1</td><td>0.378</td><td></td><td>0.082</td><td>·</td></th<>	13		9	95	1700	2	2	-	1	0.378		0.082	·
8 6 95 1900 2 2 1 1 0.315 0.145 8 6 95 2000 2 2 1 1 0.14 0.045 8 17 95 1600 2 4 1 1 0.215 0.137 8 18 95 1400 2 4 1 1 0.268 0.133 8 18 95 1400 2 4 1 1 0.268 0.138 8 18 95 1400 2 4 1 1 0.328 0.108 8 19 95 800 2 4 1 1 0.32 0.145 8 19 95 1800 2 4 1 1 0.29 0.145 8 19 95 1600 2 <td>13</td> <td> @</td> <td>9</td> <td>95</td> <td>1800</td> <td>2</td> <td>2</td> <td>-</td> <td>ļ</td> <td>0.425</td> <td>٠</td> <td>0.12</td> <td></td>	13	@	9	95	1800	2	2	-	ļ	0.425	٠	0.12	
8 6 95 2000 2 7 1 0.14 0.045 8 17 95 1600 2 4 1 1 0.215 0.137 8 18 95 1400 2 4 1 1 0.268 0.133 8 18 95 1400 2 4 1 1 0.268 0.133 8 18 95 2300 2 4 1 1 0.328 0.108 8 19 95 800 2 4 1 1 0.355 0.144 8 19 95 800 2 4 1 1 0.262 0.145 8 19 95 1600 2 4 1 1 0.262 0.136 8 19 95 1600 2 4<	12	8	٥	95	1900	2	2	-	-	0.315	٠	0.145	
8 17 95 1600 2 4 1 1 0.215 0.137 8 18 95 800 2 4 1 1 0.378 0.133 8 18 95 1400 2 4 1 1 0.368 0.108 8 18 95 2000 2 4 1 1 0.328 0.108 8 18 95 2000 2 4 1 1 0.326 0.144 8 19 95 800 2 4 1 1 0.32 0.145 8 19 95 800 2 4 1 1 0.262 0.145 8 19 95 1600 2 4 1 1 0.292 0.136 9 10 2 4 1	13		ဖ	95	2000	2	2	-	1	0.14	•	0.045	
8 18 95 800 2 4 1 1 0.378 0.133 8 18 95 1400 2 4 1 1 0.268 0.097 8 18 95 2000 2 4 1 1 0.328 0.108 8 18 95 2300 2 4 1 1 0.355 0.115 8 19 95 800 2 4 1 1 0.32 0.144 8 19 95 1200 2 4 1 1 0.29 0.145 8 19 95 1600 2 4 1 1 0.292 0.135 8 19 95 1600 2 4 1 1 0.292 0.136 9 10 2 4 1	F.	8	12	95	1600	2	4	-	1	0.215		0.137	·
8 18 95 1400 2 4 1 1 0.268 0.097 8 18 95 2000 2 4 1 1 0.328 0.108 8 18 95 2300 2 4 1 1 0.355 0.115 8 19 95 800 2 4 1 2 0.29 0.144 8 19 95 1200 2 4 1 2 0.29 0.145 8 19 95 1600 2 4 1 1 0.262 0.145 8 19 95 1600 2 4 1 1 0.292 0.136 8 19 95 1600 2 4 1 1 0.235 0.145 9 10 2 4 1 <td>F 23</td> <td></td> <td><u>8</u></td> <td>95</td> <td>800</td> <td>2</td> <td>4</td> <td>-</td> <td>1</td> <td>0.378</td> <td>-</td> <td>0.133</td> <td></td>	F 23		<u>8</u>	95	800	2	4	-	1	0.378	-	0.133	
8 18 95 2000 2 4 1 1 0.328 0.108 8 18 95 2300 2 4 1 1 0.355 0.115 8 19 95 800 2 4 1 2 0.29 0.138 8 19 95 1200 2 4 1 2 0.262 0.136 8 19 95 1600 2 4 1 1 0.262 0.135 8 19 95 1600 2 4 1 1 0.262 0.135 8 19 95 1600 2 4 1 1 0.235 0.136 9 10 2 4 1 1 0.235 0.136 7 14 95 1500 2 4 1 <td>13</td> <td></td> <td>120</td> <td>95</td> <td>1400</td> <td>2</td> <td>4</td> <td>-</td> <td>1</td> <td>0.268</td> <td></td> <td>0.097</td> <td></td>	13		120	95	1400	2	4	-	1	0.268		0.097	
8 18 95 2300 2 4 1 0.355 . 0.115 8 19 95 800 2 4 1 1 0.32 . 0.144 8 19 95 1200 2 4 1 1 0.262 . 0.145 8 19 95 1600 2 4 1 1 0.262 . 0.145 8 19 95 1600 2 4 1 1 0.292 . 0.135 8 19 95 1600 2 4 1 1 0.31 . 0.135 8 10 95 800 2 4 1 1 0.31 . 0.146 9 10 10 2 4 1 1 0.306 . 0.146 1 1 1 1 0.306 1 1 1 <td>1 2</td> <td> _®</td> <td>182</td> <td>95</td> <td>2000</td> <td>2</td> <td>4</td> <td>-</td> <td>1</td> <td>0.328</td> <td>٠</td> <td>0.108</td> <td></td>	1 2	_®	182	95	2000	2	4	-	1	0.328	٠	0.108	
8 19 95 800 2 4 1 1 0.32 . 0.144 8 19 95 800 2 4 1 2 0.29 . 0.138 8 19 95 1600 2 4 1 1 0.292 . 0.145 8 19 95 1600 2 4 1 1 0.292 . 0.135 8 19 95 800 2 4 1 1 0.31 . 0.124 8 20 95 800 2 4 1 1 0.235 . 0.116 7 14 95 1500 2 1 1 1 0.306 . 0.064	12	8	18	95	2300	2	4	-	_	0.355		0.115	
8 19 95 800 2 4 1 2 0.262 . 0.138 8 19 95 1200 2 4 1 1 0.262 . 0.145 8 19 95 1600 2 4 1 1 0.292 . 0.135 8 19 95 2000 2 4 1 1 0.31 . 0.124 8 20 95 800 2 4 1 1 0.235 . 0.116 7 14 95 1500 2 1 1 1 0.306 . 0.084 7 14 95 1530 2 1 1 1 0.334 . 0.064	13	8	19	95	800	7	4	-	٦	0.32	٠	0.144	
8 19 95 1200 2 4 1 1 0.262 . 0.145 8 19 95 1600 2 4 1 1 0.292 . 0.135 8 19 95 2000 2 4 1 1 0.31 . 0.124 7 14 95 1500 2 4 1 1 0.306 . 0.084 7 14 95 1530 2 1 1 1 0.334 . 0.064	1.3	8	19	95	800	2	4	_	2	0.29	•	0.138	
8 19 95 1600 2 4 1 1 0.292 . 0.135 8 19 95 2000 2 4 1 1 0.31 . 0.124 7 14 95 1500 2 4 1 1 0.235 . 0.084 7 14 95 1500 2 1 1 1 0.334 . 0.064	E	œ	19	95	1200	2	4	_	1	0.262	•	0.145	٠
8 19 95 2000 2 4 1 1 0.35 . 0.124 8 20 95 800 2 4 1 1 0.235 . 0.116 7 14 95 1500 2 1 1 1 0.306 . 0.084 7 14 95 1530 2 1 1 1 0.334 . 0.064	F F	6	19	95	1600	2	4	_	-	0.292	٠	0.135	·
8 20 95 800 2 4 1 1 0.235 . 0.116 7 14 95 1500 2 1 1 1 0.306 . 0.084 7 14 95 1530 2 1 1 1 0.334 . 0.064	1 2	0	62	95	2000	2	4	-	-	0.31	٠	0.124	
7 14 95 1500 2 1 1 1 0.306 . 0.084 7 14 95 1530 2 1 1 1 0.334 . 0.064	13	8	2	95	8	2	4	-	1	0.235		0.116	
7 14 95 1530 2 1 1 1 1 0.334 . 0.064	4	-	4	95	1500	L	-	1	1	0.306	·	0.084	·
	1-4-T	-	14	95	1530		-	-	1	0.334	-	0.064	·
													sheet 2 of 4

Station	Month	Day	Year	Time Type Event	Type		Rep	Split	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
T-4	7	14	92	1600	2	-	1	1	0.3	•	0.084	
T-4	7	14	92	1630	2	1	-	1	0.264	•	60.0	
T-4	7	14	92	1700	2	1	1	1	0.316		0.083	
T-4	7	14	98	1730	2	-	1	-	0.278		0.063	
T-4	7	14	36	1800	2	1	-	-	0.254		0.061	
T-4	7	14	96	1800	2	1	1	2	0.237	•	0.061	•
T-4	8	11	36	006	2	၉	1	-	0.194	-	0.114	
T-4	8	11	<u> </u>	1500	2	က	-	-	0.239		0.079	•
T-4	8	17	96	2100	2	က	-	-	0.211	-	0.075	
T-4	8	18	36	009	2	က	-	-	0.21	•	0.104	
T-4	8	18	96	1200	2	3	1	1	0.22		60.0	
T-4	8	18	96	1700	2	3	1	1	0.208	•	0.147	
T-4	8	18	92	2200	2	3	-	1	0.187	•	0.107	•
T-4	8	18	92	2200	2	3	1	2	0.196	•	660'0	
T-4	8	19	92	0	2	3	1	1	0.201	•	0.097	
T-4	8	19	92	009	2	3	1	1	0.248		0.14	
T-4	8	19	92	1000	2	3	1	1	0.243		0.144	•
T-4	8	19	92	1400	2	3	1	-	0.254	•	0.11	•
T-4	8	19	95	1800	2	3	1	1	0.256	•	0.131	•
T-4	8	19	92	2200.	2	3	-	-	0.265	•	0.149	
T-4	8	20	92	0	2	3	1	-	0.278	•	0.114	•
T-4	8	20	92	009	2	3	1	1	0.168	•	0.075	•
												sheet 3 of 4

Station	Month	Day	Year	Time	Туре	Event	Rep	Split	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
T-4	8	20	92	009	2	3	-	2	0.16	٠	0.076	-
4-T	8	20	92	1000	2	3	-	1	0.165	٠	0.093	•
T-4	6	-	92	1400	2	2	-	-	0.184	•	0.092	•
T-4	6	-	92	1430	2	വ	_	-	0.412	•	0.138	
T-4	6	-	95	1430	2	2	-	2	0.409	٠	0.137	
T-4	6	-	95	1500	2	5	-	-	0.399		0.085	•
T-4	6	-	92	1530	2	5	-	-	0.295	•	0.072	•
1-4	6	-	95	1600	2	2	-	-	0.465		0.062	٠
4-1	6	-	95	1630	2	5	-	-	0.334	•	0.066	•
1-4 4-T	6	-	92	1700	2	5	-	_	0.288		0.037	٠
T-4	6	-	95	1800	2	5	-	-	0.313	-	0.054	•
T-4	6	-	95	1900	2	2	-	-	0.208	٠	0.063	
T-4	6	-	95	2000	2	2	-	-	0.243		0.075	
T-4	6	-	95	2100	2	2	-	1	0.217		0.073	
T-4	6	2	95	009	2	ည	-	-	0.107		0.056	•
												sheet 4 of 4

Carbon Concentrations for Tributary Sampling Stations Satisfy Month Day Vear Time Type Event Rep Spit TDC (mg/L) DDC (mg/L) TC (mg/L)	Table C3	င္သ													
Month Day Year Time Type Event Rep Split TDC (imgl.1) DDC (imgl.1) DDC (imgl.1) DDC (imgl.1) TDC (imgl.1) <th>Carbo</th> <th>n Con</th> <th>centr</th> <th>ation</th> <th>s for]</th> <th>Fribut</th> <th>ary S</th> <th>dur</th> <th>ng S1</th> <th>ations</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Carbo	n Con	centr	ation	s for]	Fribut	ary S	dur	ng S1	ations					
7 6 96 1 1 1 19.279 12.802 6.477 34.196 26.207 7 1 96 1 1 1 50.485 36.27 14.216 61.801 37.266 7 1 96 1 1 1 29.876 22.722 7.154 40.116 23.848 7 1 96 1 1 1 29.876 22.722 7.154 40.116 23.848 7 1 96 1 1 1 28.064 10.174 41.713 30.655 7 1 96 1 1 1 48.807 36.254 10.174 41.713 30.655 7 1 1 1 1 48.807 36.264 10.174 41.713 30.655 7 1 1 1 1 1 48.807 36.284 13.65	Station	_	Day	Year	Time	Туре		Rep	Split	TDC (mg/L)	DIC (mg/L)	DOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
7 14 96 1 1 60.486 36.27 14.215 61.801 37.266 7 1 96 1 1 50.4876 22.722 71.64 61.10 23.484 7 1 96 1 1 29.876 22.722 71.64 40.116 23.4848 7 1 96 1 1 29.876 21.72 71.74 41.713 30.655 7 1 96 1 1 1 23.132 10.174 41.713 30.655 7 1 1 1 1 1 23.132 11.11 23.333 18.902 7 1 1 1 1 1 1 10.102 11.11 30.333 18.902 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T-1	_ 7	2	98		1		1	1	19.279	12.802	6.477	34,195	26.207	7.989
7 6 96 1 1 1 29.876 22.722 7.164 40.116 23.848 7 17 96 1 1 1 38.778 28.604 10.174 41.713 30.655 7 1 96 1 1 1 28.132 12.022 11.11 32.333 18.902 7 1 96 1 1 1 48.807 35.264 13.563 61.253 30.655 7 1 96 1 1 1 48.807 35.264 13.563 61.253 36.529 7 1 96 1 1 1 48.807 35.264 15.263 17.432 7 1 1 1 1 1 1 41.932 61.263 17.432 7 1 1 1 1 1 1 41.942 17.432	T-1	7	17	92	•	1		1	1	50.485	36.27	14.215	51.801	37.256	14.545
7 1 96 1 1 38.778 28.604 10.174 41.713 30.655 7 6 95 1 1 23.132 12.022 11.11 32.333 18.902 7 17 95 1 1 48.807 35.254 13.633 61.253 18.902 7 17 95 1 1 1 19.192 13.908 5.284 25.557 17.432 7 1 95 1 1 1 19.192 13.908 5.284 26.567 36.529 7 1 95 1 1 1 1.9.192 13.908 5.284 26.567 17.432 7 1 9 1 1 1 24.926 13.625 9.224 26.136 36.529 7 1 1 1 1 1 1 1 1	T-2	7	2	98	•	1		1	-	29.876	22.722	7.154	40.116	23.848	16.269
7 6 95 1 1 1 23.132 15.022 11.11 32.333 18.902 7 17 95 1 1 48.807 35.254 13.553 51.253 36.529 7 1 95 1 1 19.192 13.908 5.284 25.557 17.432 7 1 95 1 1 1 19.192 13.908 5.284 25.557 17.432 7 1 95 1 1 1 19.192 13.908 5.284 25.557 17.432 7 1 95 1 1 1 47.514 33.582 10.167 26.184 20.539 7 1 1 1 1 46.2 31.27 14.93 48.722 31.774 7 1 1 1 1 46.2 31.27 14.93 48.722 <	T-2	7	17	98	•	٦		-	-	38.778	28.604	10.174	41.713	30.655	11.059
7 17 96 1 1 1 48.807 35.554 13.553 61.253 36.529 7 5 95 1 1 1 19.192 13.908 5.284 25.557 17.432 7 1 1 1 1 1 19.192 13.908 5.284 25.557 17.432 7 1 1 1 1 1 1 10.167 26.184 20.539 7 1 1 1 1 1 1 10.167 26.184 20.539 7 1 1 1 1 1 47.514 33.582 10.167 26.184 20.539 7 1 1 1 1 47.514 33.582 13.932 49.425 34.856 7 1 1 1 1 46.2 31.27 14.932 36.258 31.774 8 1 1 <t< th=""><td>T-3</td><td>7</td><td>2</td><td>95</td><td></td><td>-</td><td></td><td>-</td><td>-</td><td>23.132</td><td>12.022</td><td>11.11</td><td>32.333</td><td>18.902</td><td>13,431</td></t<>	T-3	7	2	95		-		-	-	23.132	12.022	11.11	32.333	18.902	13,431
7 6 95 1 1 19.192 13.908 5.284 25.567 17.432 7 1 95 1 1 1 24.926 19.842 10.167 26.184 20.539 7 1 1 1 1 24.926 19.842 10.167 26.184 20.539 7 1 1 1 1 47.514 33.582 10.167 26.184 20.539 7 1 1 1 1 46.2 31.27 14.93 49.425 34.866 7 1 1 1 1 46.2 31.27 14.93 49.722 31.774 8 1 1 1 1 20.053 14.32 31.774 31.774 31.202 22.431 14.339 31.774 31.774 31.774 31.774 31.774 31.774 31.774 31.774 31.774 31.774 31.774 31.774 31.774	T-3	7	17	98	•	-	•	-	-	48.807	35.254	13.553	51.253	36.529	14.725
7 17 96 1 1 1 1 24.926 19.842 10.167 26.184 20.539 7 1 5 96 1 1 1 11.49 22.525 9.224 33.957 22.742 7 1 1 1 1 47.514 33.582 13.932 49.425 34.856 7 1 1 1 1 46.2 31.27 14.93 48.722 34.856 7 1 95 1 1 1 46.2 31.27 14.93 48.722 34.856 7 1 95 1 1 1 28.665 22.431 14.379 36.528 28.255 7 1 95 1 1 1 28.665 22.053 13.226 29.825 8 6 95 1 1 1 40.605 26.453 28.303 45.935 31.399 8 6	T-4	7	2	95		1		-	-	19.192	13.908	5.284	25.557	17.432	8,126
7 5 95 1 1 1 31,749 22.525 9.224 33.957 22.742 7 1 95 1 1 1 44.514 33.582 13.932 49.425 34.856 7 1 95 1 1 1 46.2 31.27 14.93 48.722 34.856 7 1 95 1 1 1 29.62 22.431 14.379 48.722 31.774 7 1 95 1 1 1 29.62 22.431 14.379 36.528 28.255 7 1 95 1 1 1 28.665 22.053 11.379 36.283 23.327 8 6 95 1 1 1 45.291 32.139 26.303 49.339 31.399 8 6 95 120 2 1	T-4	7	17	92	•	1	•	1	1	24.926	19.842	10.167	26.184	20.539	11.289
7 17 95 1 1 47.514 33.582 13.932 49.425 34.856 34.856 7 1 5 95 1 1 1 46.2 31.27 14.93 48.722 31.774 7 1 95 1 1 1 29.62 22.431 14.379 36.528 28.255 7 1 95 1 1 1 28.665 22.053 13.226 29.853 23.327 7 1 95 1 1 1 25.135 19.169 11.932 29.725 19.376 7 1 95 1 1 1 45.291 32.139 26.303 49.339 31.399 8 6 95 1200 2 2 1 1 40.605 26.453 28.303 45.952 29.082 8 6 95	T-5	7	2	92		-	•	-	-	31.749	22.525	9.224	33.957	22.742	11.215
7 5 95 1 1 46.2 31.27 14.93 48.722 31.774 7 1 95 1 1 1 29.62 22.431 14.93 48.722 31.774 7 1 1 1 1 29.62 22.053 13.225 28.853 28.255 7 5 95 1 1 1 25.135 19.169 11.932 29.725 19.376 7 1 95 1 1 1 25.135 19.169 11.932 29.725 19.376 7 1 95 1 1 1 45.291 38.122 13.667 53.222 38.898 8 6 95 1200 2 1 1 46.695 26.453 26.303 45.939 31.399 8 6 95 1200 2 2 1 1 1	T-5	7	17	95		-		-	-	47.514	33.582	13.932	49.425	34.856	14.568
7 17 96 1 1 29.62 22.431 14.379 36.528 28.255 7 17 95 1 1 28.665 22.053 13.226 29.853 23.327 7 1 95 1 1 1 25.135 19.169 11.932 29.725 19.376 7 1 95 1 1 1 45.291 38.122 13.667 53.222 38.988 7 1 95 1 1 46.291 32.139 26.303 49.339 31.399 8 6 95 1200 2 1 1 40.605 26.453 28.303 45.952 29.082 8 6 95 1230 2 1 1 40.605 26.453 28.303 45.952 29.082 8 6 95 1300 2 1 1 1	1-6	7	5	98		1		_	-	46.2	31.27	14.93	48.722	31.774	16.948
7 17 95 1 2 1 28.665 22.053 13.255 29.853 23.327 7 1 5 95 1 1 1 25.135 19.169 11.932 29.725 19.376 7 1 1 1 1 1 1.9169 11.932 29.725 19.376 7 1 1 1 1 45.291 38.122 13.667 53.222 38.898 7 1 1 1 1 45.291 32.139 26.303 49.339 31.399 8 6 95 1200 2 1 1 1 40.605 26.453 28.303 45.952 29.082 8 6 95 1230 2 1 1 1	9-1	7	17	98	•	1		1	1	29.62	22.431	14.379	36.528	28.255	16.545
7 5 95 1 1 1 25.135 19.169 11.932 29.725 19.376 7 17 95 1 1 1 45.291 38.122 13.667 53.222 38.898 7 1 1 1 1 45.291 32.139 26.303 49.339 31.399 8 6 95 1200 2 1 1 40.605 26.453 28.303 45.952 29.082 8 6 95 1230 2 2 1 1 1 1	T-6	7	17	92		1		2	1	28.665	22.053	13,225	29.853	23.327	13.053
7 17 95 1 <td>T-7</td> <td>7</td> <td>2</td> <td>92</td> <td></td> <td>1</td> <td></td> <td>1</td> <td>1</td> <td>25.135</td> <td>19.169</td> <td>11.932</td> <td>29.725</td> <td>19.376</td> <td>20.697</td>	T-7	7	2	92		1		1	1	25.135	19.169	11.932	29.725	19.376	20.697
7 5 95 1 1 1 45.291 32.139 26.303 49.339 31.399 7 17 95 1 1 1 40.605 26.453 28.303 45.952 29.082 8 6 95 1200 2 1	T-7	7	17	98	•	1		1	-	51.789	38.122	13.667	53.222	38.898	14.324
7 17 96 1 1 1 40.605 26.453 28.303 45.952 29.082 8 6 95 1200 2 2 1 1 1 <	T-8	7	2	92		1		1	1	45.291	32.139	26.303	49.339	31.399	35.881
8 6 95 1200 2 2 1 1 1	T-8	7	17	96		1		1	-	40.605	26.453	28.303	45.952	29.082	33.74
8 6 95 1230 2 2 1 1 1 . <td>T-3</td> <td>8</td> <td>9</td> <td>92</td> <td>1200</td> <td>2</td> <td>2</td> <td>1</td> <td>1</td> <td>•</td> <td></td> <td></td> <td>•</td> <td>•</td> <td>٠</td>	T-3	8	9	92	1200	2	2	1	1	•			•	•	٠
8 6 95 1300 2 2 1 1 1	T-3	8	9	92	1230	2	2	1	-	•	•	•			•
Sheet 1 of 4	1-3	8	9	98	1300	2	2	1	-	•		•		•	
															Sheet 1 of 4

6 95 1330 6 95 1400 6 95 1500 6 95 1500	·				13/5111	J () () ()	DOC (IIII)E			(
95 95	7	2	1	-		•			•	
95 95	2	2	1	1	•	٠	•			•
95	2	2	-	2			•	•	-	٠
96	2	2	-	-	-		•	•		٠
3	2	2	1	1	٠			•		
6 95 1700	2	2	-	1	•	•	•	·		
6 95 1800	2	2	1	1		·			•	
6 95 1900	2	2	1	1			-		٠	
6 95 2000	2	2	1	1	•	٠			·	
17 95 1600	2	4	1	1			-			
18 95 800	2	4	1	1	•		-			
18 95 1400	2	4	1	1				·		
18 95 2000	2	4	1	-				-	·	
18 95 2300	2	4	-	-	•					
19 95 800	2	4	-	-					·	•
19 95 800	2	4	-	2		-				·
19 95 1200	2	4	-	-	•	٠	-	·		
19 95 1600	2	4	-	-		·				
19 95 2000	2	4	1	-	-	•				
20 95 800	7	4	-	-	٠			·		
14 95 1500	7	1	1	-	•					
14 95 1530	2	1	-	-		٠	•	٠	-	٠
										Sheet 2 of 4

Station	Month	Day	Year	Time	Type	Event	Rep	Split	TDC (mg/L)	DIC (mg/L)	DOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
T-4		20	92	009	2	3	-	2						
T-4	8	20	92	1000	2	3	1	1		•		•		٠
T-4	6	-	92	1400	2	5	٦	-			·		-	
T-4	6	-	92	1430	2	5	1	1	-				-	
T-4	6	-	95	1430	2	5	1	2					-	٠
T-4	6	٦	92	1500	7	2	1	-						-
4-7	6	-	95	1530	2	9	1	1	•					
4-7	6	-	95	1600	2	£	1	1						
T-4	6	-	95	1630	2	2	1	1	•	-				
T-4	6	-	95	1700	2	2	1	1	٠	-			-	
T-4	6	-	95	1800	2	5	1	1						·
T-4	6	-	95	1900	2	5	1	-						
T-4	6	-	98	2000	2	5	-	-	-					
T-4	6	-	92	2100	2	5	-	-						
T-4	6	2	95	009	2	5	-	-		•				
														Sheet 4 of 4

Solids and Chlorophyll Concentrations for Tributary Sampling Stations Station Month Day Veat Time Type Event Rep Split TSS (mg/L) VSS (mg/L) CHIA(in) T-1 7 17 95 . 1 . 1 1 . 0.6 . 0.6 . 0.6 . 0.6 . 0.6 . 0.6 . 0.6 . 0.6 . 0.6 . 0.6 . 0.6 . 1.7 . 1 1 1 . 1 1 . 1 1 . 1 . 1 . . 1.7 .	Table C4	4:										
Month Day Year Time Type Event Rep Split TSS (mg/L) VSS (mg/L) 7 5 95 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Solids a	and Chi	oroph	yll Co	ncentra	ations	for Tr	ibuta	ry Sa	mpling Sta	tions	
7 5 95 1 1 1 24 1 7 17 95 1 1 1 10 2 7 17 95 1 1 1 50 6 6 7 17 95 1 1 1 5 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 0 6 0 0 6 0	Station		Day	Year	Time	Туре	Event	Rep	Split	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
7 17 95 1 1 1 10 2 7 5 95 1 1 1 503 50 7 17 95 1 1 1 36 6 7 17 95 1 1 1 5 0 7 17 95 1 1 1 90 5 7 17 95 1 1 1 7 4 7 17 95 1 1 1 4 3 7 17 95 1 1 1 4 3 7 17 95 1 1 1 1 7 1 95 1<	T-1	7	5	92	•	-		-	-	24	-	1.34
7 6 96 1 1 1 603 60 7 17 96 1 1 1 36 6 7 15 96 1 1 1 6 0 7 17 96 1 1 1 90 5 7 17 96 1 1 7 4 7 17 96 1 1 1 7 4 7 17 96 1 1 1 1 1 7 4 7 17 96 1 1 1 1 1 2 7 17 96 1 1 1 1 1 7 17 96 1 <td>T-1</td> <td>7</td> <td>17</td> <td>92</td> <td>•</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>10</td> <td>2</td> <td>0.67</td>	T-1	7	17	92	•	-		-	-	10	2	0.67
7 17 96 1 1 36 6 7 5 95 1 1 1 5 0 7 17 96 1 1 1 5 0 7 17 96 1 1 7 0 7 17 96 1 1 1 7 4 7 17 96 1 1 1 4 3 7 17 96 1 1 1 1 2 7 17 96 1 1 1 1 1 7 17 96 1 1 1 1 1 8 6 95 <td>T-2</td> <td>7</td> <td>5</td> <td>92</td> <td>•</td> <td>1</td> <td></td> <td>-</td> <td>-</td> <td>503</td> <td>50</td> <td>13.4</td>	T-2	7	5	92	•	1		-	-	503	50	13.4
7 6 95 1 1 1 5 0 7 17 95 1 1 1 6 1 7 15 95 1 1 7 0 7 17 95 1 1 7 4 7 17 95 1 1 7 4 7 17 95 1 1 1 7 4 7 17 95 1 1 1 2 2 2 7 17 95 1 1 1 1 1 1 1 1	T-2	7	17	92		-		-	-	36	9	8.68
7 17 95 1 1 1 5 1 7 15 95 1 1 1 90 5 7 17 95 1 1 7 4 7 17 95 1 1 4 3 7 17 95 1 1 4 3 7 17 95 1 1 1 2 2 7 17 95 1 1 1 39 8 7 17 95 1 1 1 1 1 7 15 95 1 1 1 1 8 6 95	T-3	7	2	92		,		-	-	5	0	4.4
7 5 96 1 1 1 90 5 7 17 95 1 1 1 7 4 7 17 95 1 1 4 3 7 17 95 1 1 4 3 7 17 95 1 1 1 4 3 7 17 95 1 1 1 2 2 7 17 95 1 1 1 39 8 8 6 95 1.200 1 1 1 1 1 7 17 95 1 1 1 1 1 8 6 95 1200 2 1 1 1 <td>T-3</td> <td>7</td> <td>17</td> <td>95</td> <td>•</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>5</td> <td>1</td> <td>1.5</td>	T-3	7	17	95	•	-		-	-	5	1	1.5
7 17 96 1 1 1 7 4 7 15 95 1 1 1 4 3 7 17 95 1 1 4 3 7 17 95 1 1 1 2 2 7 17 95 1 1 6 0 7 17 95 1 1 1 39 8 7 17 95 1 1 73 16 7 17 95 1 1 73 16 7 17 95 1 1 1 16 8 6 95 1230 2 1 1 22	T-4	7	5	98	٠	-		-	-	06	5	1.8
7 5 95 1 1 1 4 3 7 17 95 1 1 1 4 3 7 17 95 1 1 1 2 2 7 17 95 1 1 6 0 7 17 95 1 1 39 8 7 17 95 1 1 73 16 7 17 95 1 1 73 16 7 17 95 1 1 7 1 8 6 95 1200 2 2 1 1 22 8 6 95 1300 2 2 1 1 113	T-4	7	17	92		-		-	-	7	0	0.83
7 17 95 1 1 1 4 3 7 15 95 1 1 1 2 2 7 17 95 1 1 6 0 7 17 95 1 1 39 8 7 17 95 1 1 73 16 7 17 95 1 1 73 16 7 17 95 1 1 1 27 12 8 6 95 1200 2 2 1 1 29 8 6 95 1300 2 2 1 1 1 1 8 6 95 1300 2 1 1 1 1	T-5	7	5	92	٠	-		-	-	7	4	10.4
7 5 95 1 1 1 1 12 2 7 17 95 1 1 1 2 2 7 15 95 1 1 1 39 8 7 17 95 1 1 73 16 7 15 95 1 1 7 12 8 6 95 1200 2 2 1 1 29 8 6 95 1300 2 2 1 1 29 8 6 95 1300 2 2 1 1 113	T-5	7	17	95	·	-		-	-	4	3	3.67
7 17 95 1 1 1 2 2 7 17 95 1 1 6 0 7 17 95 1 1 73 16 7 17 95 1 1 73 16 7 17 95 1 1 1 27 12 8 6 95 1200 2 2 1 1 29 8 6 95 1300 2 2 1 1 22 8 6 95 1300 2 2 1 1 113	T-6	7	5	92		1		-	-	12	2	4.4
7 17 95 . 1 . 2 1 6 0 7 5 95 . 1 . 1 1 39 8 7 17 95 . 1 . 1 7 12 8 6 95 1200 2 2 1 1 1 27 12 8 6 95 1230 2 2 1 1 29 . 8 6 95 1300 2 2 1 1 22 8 6 95 1300 2 2 1 1 113 .	1-6	7	17	92		-		1	-	2	2	0.95
7 5 95 1 1 1 39 8 7 17 95 1 1 1 73 16 7 17 95 1 1 12 7 8 6 95 1200 2 2 1 1 29 8 6 95 1300 2 2 1 1 29 8 6 95 1300 2 2 1 1 13	T-6	7	17	92		1		2	-	9	0	0.5
7 17 95 1 1 1 73 16 7 5 95 1 1 1 27 12 8 6 95 1200 2 2 1 1 1 29 8 6 95 1300 2 2 1 1 22 8 6 95 1300 2 2 1 1 13	T-7	7	5	92		1	·	-	-	39	8	8
7 6 95 . 1 . 1 1 27 12 8 6 95 1200 2 2 1 1 12 7 8 6 95 1230 2 2 1 1 29 . 8 6 95 1300 2 2 1 1 13 .	T-7	7	17	98		1		-	-	73	16	46
7 17 95 1 1 1 1 7 8 6 95 1200 2 2 1 1 29 8 6 95 1230 2 2 1 1 22 8 6 95 1300 2 2 1 1 113	T-8	7	2	98		1		-	-	27	12	126
8 6 95 1200 2 2 1 1 29 . 8 6 95 1230 2 2 1 1 22 . 8 6 95 1300 2 2 1 1 113 .	T-8	7	11	98		1		-	-	12	7	37.9
8 6 95 1230 2 2 1 1 22 . 8 6 95 1300 2 2 1 1 113 .	T-3	8	9	92	1200	2	2	-	-	29		
8 6 95 1300 2 2 1 1 113 .	T-3	8	9	92	1230	2	2	1	-	22		
Sheet 1	T-3	8	9	95	1300	2	2	-	1	113		
												Sheet 1 of 4

_	Т	Т	- T		-	Т	Т	Т	Т	T	T	_	_	T	Т	T	Т	1		$\overline{}$	丁		-
CHLA (ug/L)	•			•	٠	-	·				٠	•		٠					·				Sheet 2 of 4
VSS (mg/L)			•	•	•	•	•		•	•	•	•	•			٠	•	٠	·		٠		
TSS (mg/L)	120	181	145	117	82	44	44	63	53	13	59	69	57	09	64	74	43	55	47	21	340	700	
Split	l	1	2	1	1	1	-	1	1	1	1	1	1	1	1	2	-	-	1	1	1	1	
Rep	1	1	1	1	1	1	-	1	1	1	٦	-	1	-	-	-	-	-	ı	1	Į.	-	
Event	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	1	-	
Type	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	7	
Time	1330	1400	1400	1500	1600	1700	1800	1900	2000	1600	800	1400	2000	2300	800	800	1200	1600	2000	800	1500	1530	
Year	95	95	95	95	95	96	95	95	92	92	92	92	92	98	92	92	92	92	95	95	95	95	
Day	9	9	9	9	9	9	9	9	9	17	18	18	138	18	19	19	19	19	19	20	14	4	
Month	8	8	8	8	8	8	8	ھ	œ	8	80	80	8	8	8	8	8	8	8	8	7	7	
Station	1-3	T-3	T-3	1-3	T-3	T-3	T-3	T-3	T-3	T-3	T-3	1-3	T-3	T-3	T-3	T-3	1-3	1-3	T-3	T-3	T-4	4-1	

	_	_	_	_	_		_		_	_	_	_	-		_	_	_	,		_			
CHLA (ug/L)		•							•		٠		٠			٠						•	Sheet 3 of 4
VSS (mg/L)					•								•			•							
TSS (mg/L)	1460	870		970	620	700	710	56	72	78	79	61	86	66	95	107	87	86	73	98	129	114	
Split	1	1		-	1	-	2	1	-	-	-	-	-	-	2	-	-	-	1	1	-	-	
Rep	,	-		-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	1	1	1	1	
Event	1	-		-	-	-	-	е	က	က	8	3	က	3	3	3	3	3	3	3	3	3	
Type	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Time	1600	1630		1700	1730	1800	1800	900	1500	2100	909	1200	1700	2200	2200	0	009	1000	1400	1800	2200	0	
Year	92	98		95	92	98	92	92	92	92	92	92	92	92	95	95	95	92	92	92	92	92	
Day	14	14		14	14	14	14	17	17	17	18	18	18	18	18	19	19	19	19	19	19	20	
Month	7	7		7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	T-4	T-4		T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	T-4	

Station	Month	Day	Year	Time	Type	Event	Rep	Split	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
T-4	8	20	98	009	2	3	1	1	38	•	
T-4	8	20	92	009	2	3	1	2	28	•	٠
T-4	8	20	96	1000	2	3	ı	1	31	•	•
T-4	6	-	92	1400	2	2	l	1	78	•	•
T-4	6	-	96	1430	2	2	1	1	502	•	•
T-4	6	-	95	1430	2	2	ı	2	597	•	٠
T-4	6	-	95	1500	2	2	1	1	413	•	
T-4	6	-	95	1530	2	9	٦	1	582	•	•
T-4	6	-	95	1600	2	9.	١	1	674	•	٠
T-4	6	-	95	1630	2	9	1	1	565		•
T-4	6	-	95	1700	2	9	1	1	374	•	•
4-7	6	-	95	1800	2	9	1	1	300	•	·
T-4	6	_	98	1900	7	2	1	1	228	•	
T-4	6	-	96	2000	7	9	1	1	233	•	٠
T-4	6	-	96	2100	7	9	٦	1	221		•
T-4	6	2	36	009	7	2	-	1	9/	•	·
											Sheet 4 of 4

Table C5	CS										
Nitrog	en Cor	neor	tratic	ons for	Ope	M-u	ater Samp	Nitrogen Concentrations for Open-water Sampling Locations	Suc		
Station	Station Month Day	Day		Year Round		Rep Split	Depth (m)		NO3N (mg/L) NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
A0-1	9	26	98	1	1	1	0.5	0.01	0	0	0
A0-1	9	26	95	1	1	1	21	0.01	0	0	0
A0-2	9	26	92	1	1	-	0.5	0.01	0	0	0
A0-2	9	26	95	1	1	-	16	0.01	0	0	0
LC-1	9	29	95	1	1	-	0.5	0.01	0	0.04	0.04
LC-1	9	29	95	1	1	2	0.5				
. LC-1	9	29	92	1	-	-	8	0.01	o	90.0	0.01
MP-1	9	27	98	1	-	-	1.5	0.01	0.05	0.21	0.04
MP-2	9	27	92	1	1	-	0.5	0.04	0.64	0.7	0.3
MP-2	9	27	92	1	1	-	3.5	0.01	0.74	0.41	0.27
PL-1	9	28	92	1	1	1	0.5	0	0.01	0.17	0.11
PL-2	9	28	92	1	1	1	0.5	0	0.01	0.41	0.26
PN-1	9	27	92	1	1	1	1.5	0.01	0.22	0.18	0.11
SA-1	9	26	92	1	-	1	0.5	0	0	0.02	0
SA-1	9	26	92	1	1	1,	12.5	0	0	0.07	0.01
SC-1	9	28	92	1	1	1	0.5	0	0.1	0.3	0.24
SC-1	9	28	92	1	1	1	8	0	10.6	3.8	3.6
SJ-1	9	28	92	-	-	1	1	0.01	0.04	0.53	0.38
SJ-2	9	28	92	-	-	-	0.5	0.01	0.39	0.55	0.39
SJ-3	9	28	92	1	-	-	1	0.01	0.1	0.32	0.25
									;		Sheet 1 of 10

NH3N (mg/L) TKN (mg/L) DTKN (mg/L)	.34 0.22		.42 0.21																				
		0.42 0.21		3.3 2.8																			
0.34	0.42		3.3		0.03	0.03	0.03	0.03	0.00	0.06	0.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.06 0 0 0 0 0 0 0.06 0.06	0.06 0 0 0 0 0 0 0.06 0.06 0.00	0.06 0 0 0 0 0 0 0.06 0.06 0.03	0.06 0 0 0 0 0 0 0.06 0.06 0.03 0.03	0.06 0 0 0 0 0 0 0 0.06 0.06 0.03 0.09 0.09	0.06 0 0 0 0 0 0 0.06 0.06 0.03 0.09 0.09 0.09	0.06 0 0 0 0 0 0 0.06 0.06 0.03 0.09 0.09 0.08 0.11 1.5	0.06 0 0 0 0 0 0 0.06 0.06 0.03 0.03 0.09 0.09 0.011 1.5 0.41	0.06 0 0 0 0 0 0 0 0.06 0.03 0.09 0.09 0.09 0.01 1.5 0.01	0.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.06 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		3.3		0.03																			
0.05	9.1	9.1	c	,	0.02		0	0 0	0 0	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0.02	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0.02 0.01 0 0.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0	0 6 0	6 0		<u>-</u>	;									0 0 0	0 0 0	0.0000000000000000000000000000000000000	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	
0 0.04 0.01 0.02	0 0.04 0.01 0.02	0.04	0.01	0.02		0	0		0	0 0	0 0	0 0.01	0 0.01 0 0.02	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0.001 0 0 0 0.001 0.001	0 0 0.01 0 0 0 0.01 0.01 0.01	0 0 0.01 0 0 0.01 0.01 0.02	0 0 0.01 0 0 0.01 0.01 0.01 0.01	0 0 0.001 0 0 0.001 0.001 0.001 0.001	0 0 0.01 0 0.02 0 0.01 0.01 0 0 0.01	0 0 0.01 0 0.02 0 0.01 0 0.01 0 0.01 0 0.01
000	000	0 0 0	0 0								ļ°	l°	0 0	0 0	0 0 0	0 0 00	0 0 0 0	0 0 0 0 0	0 0 0 0 0				
1 0.5 6 0.5 14.5	0.5 6 0.5 14.5	6 0.5 14.5	0.5	14.5		0.5	0.5	12		0.5	0.5	0.5	0.5 0.5 11 1.5	0.5 0.5 11 1.5 0.5	0.5 0.5 11 1.5 0.5	0.5 0.5 11 1.5 0.5 0.5	0.5 0.5 11 1.5 0.5 0.5 0.5	0.5 0.5 1.5 0.5 0.5 0.5 0.5	0.5 11 1.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 1.5 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 11 1.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 1.5 0.5 0.5 0.5 0.5 21 21	0.5 0.5 1.5 0.5 0.5 0.5 0.5 0.5 0.5 21 21 0.5
		-		-	1	1	1		-														
		1		-	1	1	1		-														
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95 95	98		95	92	92	98	95	_	95	95	95	95 95 95	95 95 95 95	95 95 95 95	95 95 95 95 95 95 95 95 95 95 95 95 95 9	95 95 95 95 95	95 95 95 95 95	95 95 95 95 95 95 95 95 95 95 95 95 95 9	95 95 95 95 95 95 95 95 95 95 95 95 95 9	95 95 95 95 95 95 95 95 95 95 95 95 95 9	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	95 95 95 95 95 95 95 95 95 95 95 95 95 9	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
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Depart (iii) 140314 (iiig/L) 141314 (iiig/L) 1714 (iiig/L) D1714 (iiig/L)	0		0.16	0.16	0.16 0.48 0.64	0.16 0.48 0.64 0.04	0.16 0.48 0.64 0.04	0.16 0.48 0.64 0.04 0.04	0.16 0.48 0.04 0.04 0.04 0.04	0.16 0.48 0.04 0.04 0.04 0.11	0.16 0.48 0.04 0.04 0.04 0.01 0.11	0.16 0.48 0.04 0.04 0.01 0.11 0.03	0.16 0.64 0.04 0.04 0.04 0.11 0.14 0.03	0.16 0.64 0.04 0.04 0.04 0.11 0.14 0 0.03 0.03	0.16 0.04 0.04 0.04 0.01 0.11 0.03 0.24 2.5	0.16 0.48 0.04 0.04 0.04 0.11 0.14 0 0 0.03 0.03 0.24 2.5 2.5	0.16 0.64 0.04 0.04 0.04 0.11 0.14 0.03 0.03 0.03 0.09 0.09	0.16 0.04 0.04 0.04 0.04 0.11 0.14 0 0.03 0.03 0.09 0.09 0.09	0.16 0.64 0.04 0.04 0.01 0.11 0.14 0.03 0.03 0.09 0.09 0.09 0.09	0.16 0.64 0.04 0.04 0.04 0.11 0.14 0.03 0.24 2.5 2.5 0.09 0.09 0.09	0.16 0.04 0.04 0.04 0.04 0.11 0.14 0.03 0.03 0.09 0.09 0.09 0.09 0.09	0.16 0.04 0.04 0.04 0.04 0.11 0.14 0.03 0.09 0.09 0.09 0.09 0.09 0.09 0.09	0.16 0.04 0.04 0.04 0.04 0.11 0.14 0 0.03 0.09 0.09 0.09 0.09 0.09 0.09 0.
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DTKN (mg/L)	0.02	0.01	-	0.01	•	0.02	•	0	0.01	0.13	0.02	0.02	0.06	•	0.08	0	0	0	0	0	0	0	0, 90 7 700
TKN (mg/L)	60'0	0.01		0.01		0.08	-	0	0.08	0.18	0.02	0.12	90.0	0.13	0.09	0	0.03	0	0	0	0	0	
NH3N (mg/L) TKN (mg/L)	0.11	0.04	•	•	•	0.12	•	0.13	0.04	0.04	0.04	0.01	0.02	0.01	0.01	0	0	0	0	0	0.1	0	
NO3N (mg/L)	0	0		0		0.01	•	0	0	Ö	0.01	0	0	0	0	0	0	0	0	0	0	0	
Depth (m)	0.5	0.5	0.5	0.5	0.5	11	11	1.5	0.5	=	1.5	0.5	0.5	1.5	1	0.5	18	0.5	18	0.5	0.5	7	
Split	-	-	2	1	1	1	2	1	F	-	-	-	-	-	-	-	l	1	ı	1	-	-	
Rep	-	-	-	2	3	1	-	1	Ŀ	-	-	-	-	-	-	-	1	-	1	-	2	Ŀ	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	က	က	3	8	8	က	က	
Year	92	92	92	92	92	92	92	95	95	95	95	95	95	95	95	95	95	92	92	95	95	95	
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Month	7	7	7	7	7	7	7	7	7	_	7	7	7	7	7	7	7	7	7	7	7	_	
Station Month	SJB-2	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	11-1	TL-2	TL-3	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	1-5-1	5	

LC-1 7 31 96 3 1 2 7 0 <th>Station Month Day</th> <th>Month</th> <th></th> <th>Year</th> <th>Round Rep Split</th> <th>Rep</th> <th>Split</th> <th>Depth (m)</th> <th>NO3N (mg/L)</th> <th>NH3N (mg/L)</th> <th>TKN (mg/L)</th> <th>DTKN (mg/L)</th>	Station Month Day	Month		Year	Round Rep Split	Rep	Split	Depth (m)	NO3N (mg/L)	NH3N (mg/L)	TKN (mg/L)	DTKN (mg/L)
7 27 95 3 1 1 0.5 0.05 0.42 7 27 95 3 1 1 3 0 0 0 7 27 95 3 1 2 3 0.02 0 0 7 27 95 3 1 1 0.5 0.04 0.54 7 26 95 3 1 1 0.5 0.01 0.56 0 7 26 95 3 1 1 0.5 0 0 0.01 7 26 95 3 1 1 0.5 0 0 0 0 7 26 95 3 1 1 0.5 0 0 0 0 7 26 95 3 1 1 0.5 0 0 0 0 7 26 95 3	LC-1	7	31	92	3	1	2	7	0	0	0	0
7 27 96 3 1 1 3 0 0 0 7 27 95 3 1 2 3 0.02 0 0 7 27 95 3 1 1 0.5 0.04 0.54 0 7 26 95 3 1 1 0.5 0.01 0.05 0 7 26 95 3 1 1 0.5 0 0.01 0.01 7 26 95 3 1 1 0.5 0 0 0 7 26 95 3 1 1 0.5 0 0 0 7 26 95 3 1 1 0.5 0 0 0 7 26 95 3 1 1 0.5 0 0 0 7 26 95 3 1	MP-1	7	27	92	3	1	1	0.5	0.05	0.42	99.0	0
7 27 96 3 1 2 3 0.02 0 7 27 96 3 1 1 0.5 0.04 0.54 0 7 27 96 3 1 1 0.5 0.04 0.56 7 26 96 3 1 1 0.5 0 0.01 0.01 7 26 96 3 1 1 0.5 0 0 0.02 7 24 96 3 1 1 0.5 0 0 0 7 24 96 3 1 1 0.5 0 0 0 0 7 26 95 3 1 1 0.6 0 0 0 0 7 26 95 3 1 1 0.5 0 0 0 0 7 26 95 3	MP-1	7	27	92	3	1	1	3	0	0	0.3	٥
7 27 95 3 1 1 0.5 0.04 0.54 7 7 25 95 3 1 1 3 0 0.56 0 0.56 0	MP-1	7	27	92	3	-	2	3	0.02	0	0.3	0
7 27 95 3 1 1 3 0 0.66 0 0.66 7 25 95 3 1 1 0.65 0.01 0.01 0 0 7 26 95 3 1 1 0.6 0 <td>MP-2</td> <td>7</td> <td>27</td> <td>92</td> <td>3</td> <td>1</td> <td>-</td> <td>0.5</td> <td>0.04</td> <td>0.54</td> <td>6.0</td> <td>0.1</td>	MP-2	7	27	92	3	1	-	0.5	0.04	0.54	6.0	0.1
7 26 95 3 1 1 0.5 0.01 0.01 7 25 95 3 1 1 0.5 0 0 0 7 24 95 3 1 1 0.5 0 0 0 7 24 95 3 1 1 0.5 0 0 0 7 26 95 3 1 1 0.0 0.01 0.03 7 26 95 3 1 1 0.5 0.01 0.03 7 26 95 3 1 1 0.5 0.01 0.13 7 26 95 3 1 1 0.5 0.01 0.15 7 26 95 3 1 1 0.05 0.01 0.18 7 26 95 3 1 1 0.0 0.04 0.16	MP-2	7	27	98	3	-	1	3	0	0.56	0.49	0.23
7 26 95 3 1 1 0.5 0 0.02 7 24 95 3 1 1 0.5 0 0 0 7 24 95 3 1 1 0.05 0 0 0 7 26 95 3 1 1 0.5 0 0.03 1 7 26 95 3 1 1 0.5 0.01 0.02 7 26 95 3 1 1 0 0.01 0.03 7 26 95 3 1 1 0 0.01 0.01 7 26 95 3 1 1 0 0.01 0.01 7 26 95 3 1 1 0 0.01 0.01 7 26 95 3 1 1 0 0 0 <th< td=""><td>PL-1</td><td>7</td><td>25</td><td>92</td><td>3</td><td>1</td><td>+</td><td>0.5</td><td>0.01</td><td>0.01</td><td>0.4</td><td>0.14</td></th<>	PL-1	7	25	92	3	1	+	0.5	0.01	0.01	0.4	0.14
7 27 95 3 1 1 1 0.32 0.39 8 7 24 95 3 1 1 0.5 0 0 0 7 26 95 3 1 1 0.6 0 0.03 7 26 95 3 1 1 8 0 4.5 0 7 26 95 3 1 1 8 0 4.5 0 7 26 95 3 1 1 0.0 0.01 0.03 7 26 95 3 1 1 0 0.01 0.01 0.18 7 26 95 3 1 1 0 0.01 0.01 0.16 7 26 95 3 1 1 0 0 0.04 0.16 7 26 95 3 1 1 <	PL-2	7	25	92	3	1	1	0.5	0	0.02	9.0	0.17
7 24 95 3 1 1 0.5 0 0 7 26 95 3 1 1 0.5 0 0.04 0 7 26 95 3 1 1 8 0 4.5 0 7 26 95 3 1 1 0 0.01 0.03 7 26 95 3 1 1 0 0.01 0.13 7 26 95 3 1 1 0 0.01 0.18 7 26 95 3 1 1 0 0.01 0.18 7 26 95 3 1 1 0 0.01 0.16 7 26 95 3 1 1 0.5 0.04 7.4 7 26 95 3 1 1 0.05 0.04 7.4 7	PN-1	7	27	92	3	1	1	-	0.32	0.39	0.48	0.3
7 24 95 3 1 1 11 0.01 0.04 7 7 26 95 3 1 1 8 0 0.02 0.02 7 26 95 3 1 1 0 0 0.03 0.03 7 26 95 3 1 1 0.01 0.013 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.14 0.13 0.14 0.13 0.14 0.14 0.13 0.14 0.13 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.14 0.18 0.14 0.18 0.14 0.18 0.14	SA-1	7	24	98	3	1	1	0.5	0	0	0.04	0
7 26 95 3 1 1 0.5 0 0.02 7 26 95 3 1 1 8 0 4.5 7 26 95 3 1 1 0.0 0.01 0.03 7 26 95 3 1 1 0 0.01 0.17 7 26 95 3 1 1 1 0.01 0.18 7 26 95 3 1 1 0 0.01 0.18 7 26 95 3 1 1 0.5 0.01 0.16 7 26 95 3 1 1 5 0.04 7.4 7 26 95 3 1 1 5 0.01 0.01 7 24 95 3 1 1 6 0.01 0.01 8 9 3	SA-1	7	24	92	3	1	1	11	0.01	0.04	0.13	0.05
7 26 95 3 1 1 8 0 4.5 7 26 95 3 1 1 0.0 0.01 0.03 7 26 95 3 1 1 0 0.01 0.13 1 7 26 95 3 1 1 1 0.01 0.18 0 7 26 95 3 1 1 0 0.01 0.18 0 7 26 95 3 1 1 0.5 0.01 0.16 0 7 26 95 3 1 1 5 0.04 7.4 0 7 24 95 3 1 1 6 0.01 0.01 0.01 7 24 95 3 1 1 1 0.01 0.01 0.01	SC-1	7	26	92	3	1	1	0.5	0	0.02	0.41	0.31
7 26 95 3 1 1 0.0 0.03 7 26 95 3 1 1 0.5 0.01 0.13 7 26 95 3 1 1 1 0.01 0.18 7 26 95 3 1 1 0 0.01 0.18 7 26 95 3 1 1 0.5 0.01 0.16 7 26 95 3 1 1 5 0.04 7.4 7 26 95 3 1 1 5 0.04 7.4 7 24 95 3 1 1 0.5 0.01 0.01 7 24 95 3 1 1 16 0.01 0.01	SC-1	7	26	92	3	1	1	8	0	4.5	2	1.2
7 26 95 3 1 1 0.5 0.01 0.13 7 7 26 95 3 1 1 1 0.01 0.17 7 26 95 3 1 1 1 0 0.28 7 26 95 3 1 1 0.5 0.01 0.16 7 26 95 3 1 1 5 0.04 7.4 7 24 95 3 1 1 6.0 0.01 0.01 7 24 95 3 1 1 16 0.01 0.01 0.01	SJ-1	7	26	95	3	1	1	1	0	0.03	0.71	0.27
7 26 95 3 1 1 1 0.01 0.17 7 26 95 3 1 1 1 0.01 0.18 7 26 95 3 1 1 0.5 0.01 0.16 7 26 95 3 1 1 5 0.04 7.4 7 24 95 3 1 1 6 0.01 0.5 7 24 95 3 1 1 16 0.01 0.01	SJ-2	7	26	92	3	1	-	0.5	0.01	0.13	0.61	0.31
7 26 95 3 2 1 1 0.01 0.18 7 26 95 3 1 1 0.5 0.01 0.16 7 26 95 3 1 1 5 0.04 7.4 7 24 95 3 1 1 6 0.01 0.01 7 24 95 3 1 1 16 0.01 0.01	SJ-3	7	26	92	3	1	1	1	0.01	0.17	0.4	0.31
7 26 95 3 1 1 0 0 0.28 7 26 95 3 1 1 0.5 0.01 0.16 7.4 7 24 95 3 1 1 5 0.01 0 0 7 24 95 3 1 1 16 0.01 0	SJ-3	7	26	92	3	2	-	1	0.01	0.18	68.0	0.35
7 26 95 3 1 1 0.5 0.01 0.16 7 26 95 3 1 1 5 0.04 7.4 7 24 95 3 1 1 0.5 0.01 0 7 24 95 3 1 1 16 0.01 0.01	SJ-4	7	26	92	3	-	-	1	0	0.28	0.37	0.44
7 26 95 3 1 1 5 0.04 7.4 7 24 95 3 1 1 0.5 0.01 0 7 24 95 3 1 1 16 0.01 0.01	SJ-5	7	26	92	3	-	-	0.5	0.01	0.16	9.0	0.35
7 24 95 3 1 1 0.5 0.01 0 7 24 95 3 1 1 16 0.01 0.01	SJ-5	7	26	95	8	-	-	5	0.04	7.4	2.8	3.1
1 7 24 95 3 1 1 1 16 0.01 0.01	SJB-1	7	24	92	3	-	-	0.5	0.01	0	0	0
	SJB-1	7	24	92	3	-	-	16	0.01	0.01	60.0	0.02
		,										Sheet 5 of 10

	Station Month	Day	Year	Round	Rep Split	Split	Depth (m)	NO3N (mg/L)	MUSIC (IIIB) E) I VIC (IIIB) E)	I WILL THE STATE OF	D 1111 (1119) = 1
SJB-2	_	24	95	က	-	-	-	0	0	0.09	0.02
SJB-3	-	24	95	8	-	-	0.5	0	0	0.03	0
SJB-3	_	24	95	3	-	-	11	0	0.03	0.03	0.02
SJB-4	7	24	95	3	-	1	1.5	0	0	0.03	0
SJB-4	_	24	95	ဧ	2	-	1.5	0	0.04	0.07	0
SJB-5	7	24	95	3	-	1	0.5	0	0	0.1	0.1
SJB-5	_	24	95	3	-	-	11	0	0.03	90'0	0
1-1-	_	24	95	3	-	-	1.5	0.01	0.01	0.18	0.02
TL-2	7	25	95	3	-	-	0.5	0	0.01	0.21	90.0
71-3	_	25	98	3	-	-	0.5	0	0.11	0.26	0.05
714	_	25	95	3	-	1	-	0	60.0	90.0	0.03
TL-5	7	25	95	3	-	-	0.5	0	0	0.3	90.0
A0-1	8	7	95	4	-	-	0.5	0	0.04	0.15	0.02
A0-1	8	7	95	4	-	-	18	0	0.03	0	0
A0-2	8	7	95	4	-	-	0.5	0	0.02	0	0
A0-2	8	7	95	4	-	-	15	0	0.04	٥	0
1-0-1	8	10	95	4	1	٦,	0.5	0	0	0.01	0
1-5-1	8	5	95	4	2	1	0.5	0	0	0	0
57	8	2	95	4	-	1	2	0	0.07	0.02	0
MP-1	8	2	95	4	-	_	0.5	0.03	0.74	0.41	0.31
MP-1	ω	2	95	4	-	-	က	0	0.12	0.16	
MP-2	0	2	95	4	-	-	0.5	0.02	0.58	0.52	0.78
											Sheet 6 of 10

									_						_	_				-			
DTKN (mg/L)	0.15	0.71	0.23	0.22	0.1	0.12	•	•	0.27	9	•	0.21	0.45	0.4	0.42	0.34	0.31	0.24	0	0	0.04	0.01	Sheet 7 of 10
TKN (mg/L)	22.0	99.0	0.7	0.64	0.16	0.2	60.0	0.02	0.33	8.2		0.21	92.0	0.46	0.4	0.42	0.41	0.3	0	0	0.07	0	
NH3N (mg/L)	1.5	0.03	0.04	0.06	0.32	0.27	0	0.02	0.07	11	•	0.03	0.28	0.44	0.44	0.23	0.22	0.11	0.05	0.05	0.01	0	
NO3N (mg/L) NH3N (mg/L) TKN (mg/L)	0	0	0	0	0.01	0	0	0	0.01	0	•	0.01	0.02	0.01	0.01	0.01	0.01	0	0	0	0	0	
Depth (m)	3	0.5	0.5	0.5	1	1	0.5	12	0.5	8	80	2	0.5	1	1	1	1	1	0.5	15	1	0.5	
Split	1	1	2	1	1	2	1	1	-	1	2	1	1	1	2	1	1	1	1	1	1	1	
Rep Split	1	1	1	1	1	1	1	1	F	1	1	1	1	1	1	1	2	1	1	1	1	1	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Year	95	95	95	95	95	95	95	95	92	92	92	95	95	95	95	95	95	95	95	95	95	95	
Day	10	8	8	8	10	10	7	7	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station Month	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	

-																							2
DTKN (mg/L)	0.02	0.05	0.04	0.12	0.27	0.04	0.1	0.1	0.08	0.48	9.0	0.68	0.31	0.04	0.03	0.05	0.03	90.0	0.05	0.34	0.98	0.97	Shoot 8 of 10
TKN (mg/L)	0.04	90.0	0.04	60.0	0.32	90.0	90'0	0.11	0.12	0.13	3	3.1	0.81	90.0	0.03	0.08	0.08	90.0	0.05	0.37	1.1	1	
NH3N (mg/L) TKN (mg/L)	0.01	0.02	0.04	0.16	0.05	0.04	90.0	0.03	0.04	90.0	5.9	5.4	0.26	0.08	0.29	0.19	0.04	0.41	9.0	0.61	2.1	2.2	
NO3N (mg/L)	0	0	0	0.01	0	0.01	0	0	0	0	90.0	60.0	0	0.01	. 0	0	0	0	0.01	0.01	0	0	
Depth (m)	11	1	1	0.5	10	0.5	3.6	0.5	0.5	0.5	10	10	0.5	0.5	17	0.5	16	0.5	8	1.5	0.5	0.5	
Split	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep Split	1	1	1	1	1	1	1	-	-	1	1	2	1	-	1	1	1	1	ı	1	ı	7	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	9	5	9	9	9	9	9	9	9	
Year	92	92	95	95	92	95	92	98	98	95	92	95	95	95	95	95	98	95	92	95	96	92	
Day	7	7	7	7	7	7	7	8	8	8	8	8	8	22	22	22	22	28	28	23	23	23	
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station Month	SJB-3	SJB-4	SJB-4	SJB-5	SJB-5	TL-1	TL-1	TL-2	TL-3	TL-4	TL-4	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	LC-1	MP-1	MP-2	MP-2	

DTKN (mg/L)	1.7	0.16	0.15	0.15	0.21	0.21	0.04	0.02	0.25	4.8	0.28	0.23	0.3	0.34	0.36	0.32	0.48	0.02	0.01	0.01	0.02	0.03	Sheet 9 of 10
TKN (mg/L)	1.6	0.39	0.52	0.79	6.0	0.29	90.0	90'0	0.49	9'9	0.71	62.0	98'0	0.64	0.65	69'0	0.78	0.05	0.03	0.1	0.11	0.11	
NH3N (mg/L) TKN (mg/L)	3.6	0.31	0.2	0.13	0.44	0.5	0.04	0.05	0.18	11.5	0.08	0.05	0.22	0.28	0.3	0.24	0.55	0.04	0.4	0.23	0.08	8.0	-
NO3N (mg/L)	0.07	0.02	0.02	0.01	0	0	0.01	0	0.01	0.03	0.01	0	0	0	0	0	0	0	0	0	0	0	
Depth (m)	3	0.5	0.7	0.5	1	1	0.5	11	0.5	8	0.5	0.5	0.5	1	1	1	1	0.5	15	1	0.5	12	
Rep Split	1	1	1	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	
Rep	ı	1	2	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	
Round	9	5	5	9	2	2	2	9	5	2	5	5	5	5	5	5	5	5	5	5	5	5	
Year	95	95	95	95	95	95	95	95	92	95	95	92	95	95	95	95	95	95	95	95	95	95	
	23	24	22	24	23	23	22	22	21	21	21	21	21	21	21	21	21	22	22	22	22	22	
Station Month Day	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	

DTKN (mg/L)	0.04	0.05	0.02	90.0	60.0	0.01	60'0	0.14	0.14	0	2.2	0.08	Sheet 10 of 10
TKN (mg/L)	0.42	0.3	90'0	0.04	0.11	0.02	0.13	0.12	20.0	0.07	2.2	0.12	٠,
NH3N (mg/L) TKN (mg/L)	0.11	0.11	0.45	0.2	0.37	0.28	90'0	0.04	90.0	0.35	7	0.16	
NO3N (mg/L)	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Depth (m)	1.5	1.5	0.5	10	0.5	3	0.5	0.5	0.5	0.5	12	1	
Rep Split	1	2	1	1	1	1	1	1	2	1	1	1	
Rep	1	1	1	1	1	1	l	1	1	1	1	1	
Round	9	9	9	9	9	9	9	9	9	9	9	9	
Year	95	95	95	95	95	95	95	95	95	95	95	95	
Day	22	22	22	22	22	24	24	24	22	24	24	24	
Month	8	8	8	8	8	8	8	8	8	8	8	8	
Station Month	SJB-4	SJB-4	SJB-5	SJB-5	TL-1	TL-1	TL-2	TL-3	TL-3	TL-4	TL-4	TL-5	

Table C6	9										
Phosph	orus Co	ncen	tration	ns for (-Ded	water	Samp	Phosphorus Concentrations for Open-water Sampling Locations	ions		
Station	Month	Day	Year	Round	Rep	Split	Depth	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
A0-1	9	26	96	1	1	1	0.5	0	0.001	0.002	0
A0-1	9	26	95	1	1	1	21	0	0.001	0.002	0
A0-2	9	26	98	1	1	1	0.5	0.001	0.002	0.002	0
A0-2	9	26	92	1	1	-	16	0.009	0.003	0.005	0.001
LC-1	9	29	98	1	1	-	0.5	0.015	0.008	0.007	0.003
LC-1	9	29	95	1	-	2	0.5				
LC-1	9	29	92	1	1	-	8	0.036	0.026	0.017	0.025
MP-1	9	27	36	1	-	1	1.5	960.0	0.062	0.028	0.041
MP-2	9	27	96	1	1	-	0.5	0.358	0.345	0.167	
MP-2	9	27	92	1	1	-	3.5	0.156	0.088	0.107	0.089
PL-1	9	28	95	1	1	1	0.5	0.131	0.051	0.023	0.037
PL-2	9	28	92	1	1	1	0.5	0.172	0.091	0.08	0.038
PN-1	9	27	92	1	1	-	1.5	0.11	0.073	0.046	0.066
SA-1	9	26	92	-	1	1	0.5	0.04	0.016	0.03	0.015
SA-1	9	26	95	-	-	-	12.5	0.069	0.018	0.078	0.036
SC-1	9	28	92		-	-	0.5	0.138	960'0	0.1	0.083
SC-1	9	28	92	-	T	-	8	1.44	1.25	1.54	1.48
SJ-1	9	28	92	-	-	-	1	0.186	0.131	0.084	0.086
SJ-2	9	28	92	-	-	1	0.5	0.234	0.23	0.158	0.226
SJ-3	9	28	95	-	-	-	1	0.16	0.124	0.117	0.166
											Sheet 1 of 10

		_	_	-					_	_	_	<u> </u>	_			- 1	- T	T	Т		7		তা
DIP (mg/L)	660'0	0.074	•	0.004	0.002	0.005	0.012	0.011	0.026	0.018	0.031	0.001	0.016	0.037	0.021	0.558	0.025	0.002	0.004	0	0.001	0.005	Sheet 2 of 10
TDP (mg/L)	0.079	0.066	1.26	900'0	0.006	0.011	0.021	0.021	0.061	0.044	0.07	0.004	0.011	0.026	0.018	0.558	0.041	0.024	0.02	0.014	0.018	0.005	
TIP (mg/L)	0.118	0.108	1.21	0.007	0.006	0.039	0.015	0.028	0.01	0.047	0.028	0.005	0.028	0.03	0.068	0.482	0.093	0.001	0.002	0	0.004	0.008	
TP (mg/L)	0.168	0.164	1.33	0.007	600.0	0.042	0.048	0.031	0.093	990.0	0.089	900.0	0.052	0.053	0.053	0.63	0.142	0.026	0.028	0.021	0.026	0.015	
Depth	-	0.5	9	0.5	14.5	0.5	0.5	12	0.5	0.5	=	1.5	0.5	0.5	0.5	13	0.5	0.5	21	0.5	21	0.5	
Split	-	-	-	-	1	1	-	-	1	-	1	-	-	-	-	٦	1	-	-	ı	1	-	
Rep	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	1	1	1	-	-	_	-	
Round	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	1	2	2	2	2	2	
Year	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	92	92	95	95	95	95	
Day	28	28	28	26	26	26	26	26	26	26	26	26	29	29	29	29	28	9	10	10	9	13	
Month	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	^	^	7	7	^	
Station	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	TL-1	TL-2	TL-3	TL-4	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	-5 <u>1</u>	

ng/L}	60	73	99	17	90	04	01	59	99	01	80	67	1.06	0.074	37	0.108	0.108	0.108	01	0.083	0.003	Ī
DIP (mg/L)	600'0	0.073	0.166	0.217	0.006	0.004	0.001	0.059	0.066	0.001	0.008	0.067	1.0	0.0	0.037	0.1	0.1	0.1	0.101	0.0	0.0	
TDP (mg/L)	0.007	0.078	0.185	0.217	0.02	0.019	0.011	90.0	0.068	0.027	0.024	0.092	1.14	0.117	0.064	0.14	0.135	0.138	0.131	0.103	0.027	
TIP (mg/L)	0.016	0.11	0.195	0.246	0.074	0.057	0.053	0.084	0.085	0.012	0.016	0.111	1.18	0.13	0.259	0.143	0.124	0.126	0.113	0.136	0.008	
TP (mg/L)	0.02	0.165	0.255	0.295	0.133	0.119	0.13	0.125	0.102	0.04	0.048	0.174	1.32	0.219	0.318	0.201	0.17	0.176	0.198	0.22	0.046	
Depth	9	1.5	9.0	4	1	0.5	0.5	ı	1	9.0	12	9.0	6	0.5	0.5	0.5	1	1	0.5	3	0.5	
Split	Ŀ	1	ı	L	-	-	-	1	1	ı	-	1	-	-	-	1	1	1	-	1	1	
Rep	-	-	-	-	_	-	2	-	2	-	-	-	-	-	-	-	1	2	-	_	-	L
Round	2	2	2	2	7	2	7	7	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	95	95	95	92	92	92	92	92	92	92	92	92	95	95	92	92	92	92	92	92	92	Ŀ
Day	13	13	13	13	12	12	12	13	13	10	10	=	=	=	Ξ	Ξ	=	=	Ξ	=	5	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	^	7	7	7	7	
Station	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-4	SJ-4	SJ-5	SJ-5	SJB-1	

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DIP (mg/L)	0.01	0.018	•	•	•	0.004	٠	0.003	0.016	0.011	0.004	0.002	0.001	0.017	0.01	0.007	0.004	0.004	0.004	0.002	0	0	Sheet 4 of 10
TDP (mg/L)	0.029	0.016	٠	0.016	•	0.143	•	0.062	0.012	0.014	0.019	0.01	600.0	0.014	0.027	0.004	0.002	0.002	0.002	0.01	0.007	0.01	
TIP (mg/L)	0.037	0.018		0.016		0.016	•	0.012	0.057	0.02	0.016	0.028	0.02	0.064	0.033	0	0.002	0	0	0	0	0.01	
TP (mg/L)	0.111	0.046	•	•		0.038	•	0.027	0.073	0.029	0.05	0.056	0.049	0.076	0.071	0.006	0.01	0.004	0.002	0.008	0.01	0.032	
Depth	0.5	0.5	0.5	0.5	0.5	11	11	1.5	0.5	11	1.5	0.5	0.5	1.5	٦	0.5	18	0.5	18	0.5	0.5	7	
Split	1	1	2	1	1	1	2	ı	1	-	-	-	-	-	1	ı	-	1	-	L	1	_	
Rep	-	1	1	2	3	1	ı	1	-	-	-	-	-	-	1	ı	1	1	-	-	2	-	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	က	ဧ	ဧ	က	က	ဗ	3	
Year	95	95	92	98	92	95	95	95	92	96	92	92	98	92	92	92	92	92	95	95	92	95	
Day	2	10	10	10	10	10	5	10	13	13	9	12	12	12	12	24	24	24	24	31	31	31	
Month	7	7	7	7	7	7	7	7	7	7	7	_	7	7	7	7	1	7	7	^	7	_	
Station	SJB-2	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	TL-1	TL-2	TL-3	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	L-5-1	<u></u>	ان- 1-51	

Г	Γ	ī	Г	T	Т	Т	ī	T	Г	Т	T	ī	Г	Т	i -	Τ=	Г	_	r==	_	-	<u> </u>	7
DIP (mg/L)	0.007	90.0	0.012	0.013	0.125	0.088	0.001	0.002	0.123	0.007	0.012	0.015	0.005	0.007	0.022	0.081	0.073	0.116	0.07	0.84	0.003	0.005	Sheet 5 of 10
TDP (mg/L)	0.008	0.126	0.03	0.032	0.186	660.0	0.017	0.025	0.173	9000	0.012	0.076	0.415	0.039	0.049	0.112	0.113	0.144	0.103	0.89	0.002	0.003	
TIP (mg/L)	0.015	0.306	0.146	0.152	0.577	0.267	0.059	0.072	0.458	0.007	0.012	0.111	0.64	0.12	0.094	60.0	0.092	0.129	0.116	0.805	0.008	0.002	
TP (mg/L)	0.032	0.266	0.177	0.181	0.378	0.165	0.166	0.162	0.458	0.021	0.022	0.152	0.772	0.188	0.184	0.129	0.13	0.165	0.172	0.941	0.025	0.008	
Depth	7	0.5	3	3	0.5	က	0.5	0.5	-	0.5	11	0.5	8	1	0.5	1	1	1	0.5	5	0.5	16	
Split	2	1	1	2	1	ı	ι	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	-	1	-	-	1	
Round	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Year	95	95	95	95	95	92	92	92	92	95	92	92	92	92	95	92	92	95	92	92	92	92	
Day	31	27	27	27	27	27	25	25	27	24	24	26	26	26	26	26	26	26	26	26	24	24	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-1	MP-1	MP-2	MP-2	PL-1	PL-2	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

Depth TP (mg/L) Ti	Split	물	Round Rep	Year Round	Round	Year Round
1 0.063 0.035		1	3 1 1	95 3 1 1		92
0.5 0.028 0.012		1	3 1 1	95 3 1 1		92
11 0.018 0.018		1 1	3 1 1	95 3 1 1		96
1.5 0.057 0.049		1	3 1 1	95 3 1 1		92
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11 0.027 0.017	1	1	3 1	95 3 1		92
1.5 0.054 0.022	1	1	3 1	95 3 1		92
0.5 0.074 0.052	1	1	3 1	95 3 1		92
0.5 0.097 0.041	1	1	3 1	95 3 1	_	92
1 0.06	1	1	3 1	95 3 1		98
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5 0.019	1	1	4 1	95 4 1		92
0.5 0.206 0.129	1	1	4 1	95 4 1		92
3 0.111	1	1	4 1	95 4 1		98
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0.017	0.017 0.018 0.014 0.029 0.008 0.006	0.018 0.018 0.014 0.029 0.008 0.006 0.005 2.17	0.017 0.018 0.014 0.031 0.008 0.006 0.005 2.17	0.017 0.018 0.014 0.031 0.008 0.006 0.005 0.003 0.003 0.038	0.017 0.018 0.014 0.031 0.008 0.006 0.005 0.003 0.003 0.038 0.038 0.036 0.036	0.017 0.018 0.014 0.031 0.008 0.006 0.005 0.003 0.003 0.038 0.038 0.036 0.004 0.005
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SA-1	SA-1 SC-1	SA-1 SC-1 SC-1 SJ-1	SA-1 SC-1 SC-1 SJ-2 SJ-3	SA-11 SC-1 SC-1 SC-1 SJ-3 SJ-3 SJ-4 SJ-4 SJ-4	SA-1 SC-1 SC-1 SJ-1 SJ-3 SJ-3 SJ-4 SJ-5 SJ-5 SJ-5 SJ-6 SJ-6 SJ-6 SJ-7 SJ-7 SJ-7 SJ-7 SJ-7 SJ-7 SJ-7 SJ-7	SA-1 SC-1 SC-1 SC-1 SJ-2 SJ-3 SJ-3 SJ-4 SJ-4 SJ-4 SJ-4 SJ-8 SJ-4 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8

Round Rep Split Depth
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	Month	Day	Year	Round	Rep	Split	Split Depth	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
MP-2	8	23	92	5	-	-	3	0.532	0.455	0.546	0.538
PL-1	8	24	92	5	-	1	0.5	0.194	0.115	0.024	0.008
P1	8	22	92	5	2	-	0.7	0.192	0.126	0.017	900'0
PL-2	8	24	95	5	-	1	9.0	0.171	0.085	0.018	0.007
PN-1	8	23	98	5	-	-	1	0.163	0.11	0.082	0.067
PN-1	8	23	92	2	-	2	1	0.167	0.121	0.083	0.068
SA-1	8	22	92	5	-	-	0.5	0.013	600.0	0.011	0.001
SA-1	8	22	92	2	-	1	11	0.014	0.015	0.012	0.004
SC-1	8	21	92	വ	-	1	0.5	0.112	0.045	0.028	900'0
SC-1	8	21	98	5	-	-	8	2.09	1.7	1.93	1.81
SJ-1	8	21	92	5	-	٦	0.5	0.171	0.064	0.035	0.004
SJ-1	8	21	92	5	2	-	0.5	0.172	0.062	0.026	0.004
SJ-2	8	21	92	വ	1	1	0.5	0.203	0.121	0.085	0.048
SJ-3	8	21	92	ည	1	1	1	0.227	0.14	0.093	0.059
SJ-3	8	21	92	2	1	2	1	0.24	0.147	0.091	0.058
SJ-4	8	21	92	2	1	1	1	0.186	0.103	0.074	0.043
SJ-5	8	21	98	2 .	1	1	1	0.179	0.108	0.098	0.057
SJB-1	8	22	92	5	1	1	0.5	0.00	0.005	600.0	0.002
SJB-1	8	22	92	5	-	1	15	0.019	0.01	0.011	0.004
SJB-2	8	22	92	2	1	1	1	0.048	0.032	0.019	0.008
SJB-3	8	22	92	2	1	1	0.5	0.027	0.02	0.015	0.005
SJB-3	8	22	92	5	-	-	12	0.023	0.016	0.014	0.002
											Sheet 9 of 10

Station	Month	Day	Year	Round	Rep	Split	Depth	TP (mg/L)	TIP (mg/L)	TDP (mg/L)	DIP (mg/L)
SJB-4	8	77	<u> </u>	9	1	1	1.5	0.114	90.0	0.053	0.022
SJB-4	8	22	36	2	1	2	1.5	0.116	0.062	0.055	0.025
SJB-5	8	22	98	2	1	1	0.5	0.039	0.023	0.016	900'0
SJB-5	8	22	96	9	1	-	10	0.029	0.019	0.021	0.011
TL-1	8	22	92	9	1	1	9.0	0.054	0.023	90.0	0.053
TL-1	8	24	96	9	l	-	3	0.024	0.011	0.01	0.002
TL-2	8	24	92	2	1	-	9.0	680'0	0.04	0.025	900.0
TL-3	8	24	96	9	1	-	0.5	0.098	0.052	0.041	0.023
TL-3	8	22	92	9	1	7	0.5	0.103	0.058	0.046	0.023
TL-4	8	24	92	9	٦	1	0.5	0.097	0.059	0.017	0.002
TL-4	8	24	95	9	-	1	12	0.818	0.545	0.585	0.608
TL-5	8	24	98	5	1	1	1	0.077	0.048	0.024	9000
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6 28 95 1 1 1 14,051 5.256 8.825 6 28 95 1 1 1 0.5 17,702 8.526 9.2 6 28 95 1 1 1 6 27.581 24.381 6.402 9.2 6 26 26 95 1 1 1 6 27.581 24.381 6.402 9.2 6 26 95 1 1 1 1.45 25.213 22.639 2.574 2.974 6 26 95 1 1 1 0.5 25.938 2.574 3.319 6 26 95 1 1 1 0.5 26.641 23.75 3.323 6 26 95 1 1 1 0.5 25.845 22.022 3.823 6 26 95 1 1 1 1 28.548	Station Mo	Month Da	Day Yea	ar Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (mg/L)	Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
6 28 95 1 1 0.5 17.702 8.502 9.2 6 28 95 1 1 1 6 27.581 24.381 6.402 6 26 26 95 1 1 1 6 27.581 24.381 6.402 6 26 26 95 1 1 1 0.5 25.213 22.639 2.574 6 26 95 1 1 1 0.5 27.273 23.634 2.574 6 26 95 1 1 1 0.5 27.273 23.679 3.759 6 26 95 1 1 1 0.5 25.945 22.679 3.759 6 26 95 1 1 1 0.5 25.845 22.022 3.823 8 1 1 1 1 1 1 1 28.548 22.032 <	SJ-4			-	E	Ŀ	-	14.051	5.226	8.825	•	•	•
6 28 95 1 1 6 27.581 24.381 6.402 6 26 95 1 1 1 0.5 23.12 20.142 2.978 6 26 95 1 1 1 1.45 25.213 22.639 2.574 6 26 95 1 1 1 0.5 27.273 23.514 3.759 6 26 95 1 1 1 0.5 25.639 22.639 2.574 6 26 95 1 1 1 0.5 26.641 23.275 3.319 6 26 95 1 1 1 0.5 26.641 23.275 3.385 6 26 95 1 1 1 0.5 25.845 22.022 3.823 7 1 1 1 1 1 1 1 20.641 22.387 22.387 <t< td=""><td>SJ-5</td><td>\vdash</td><td>ြ</td><td>-</td><td>-</td><td>-</td><td>0.5</td><td>17.702</td><td>8.502</td><td>9.2</td><td></td><td>•</td><td>•</td></t<>	SJ-5	\vdash	ြ	-	-	-	0.5	17.702	8.502	9.2		•	•
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6 29 95 1 1 1 0.5 25.834 22.301 3.534 6 29 95 1 1 1 0.5 32.898 24.748 8.15 6 29 95 1 1 1 39.857 6.601 7 10 95 2 1 1 0.5 28.156 22.917 5.239 7 10 95 2 1 1 0.5 23.416 22.761 0.655 7 10 95 2 1 1 0.5 23.416 22.761 0.668	TI-2	T	+-	5	-	_	0.5	24.711	21.018	3.694			
6 29 95 1 1 1 0.5 32.898 24.748 8.15 6 29 95 1 1 1 39.857 6.601 7 10 95 2 1 1 0.5 28.156 22.917 5.239 7 10 95 2 1 1 0.5 23.416 22.761 0.655 7 10 95 2 1 1 21 21.852 20.72 1.132 7 10 95 2 1 1 0.5 23.595 22.928 0.668	11-3	H	+-	5	-	-	0.5	25.834	22.301	3.534			
6 29 95 1 1 1 1 39.857 6.601 6 28 95 1 1 1 0.5 28.156 22.917 5.239 7 10 95 2 1 1 0.5 23.416 22.761 0.655 7 10 95 2 1 1 21.852 20.72 1.132 7 10 95 2 1 1 0.6 23.595 22.928 0.668	4-1	\dagger	╀	5 1	-	<u> </u> -	0.5	32.898	24.748	8.15			
6 28 95 1 1 0.5 28.156 22.917 5.239 7 10 95 2 1 1 0.5 23.416 22.761 0.655 7 10 95 2 1 1 21 21.852 20.72 1.132 7 10 95 2 1 1 0.5 23.595 22.928 0.668	11.4	\dagger	┝	5	-	-	13	46.458	39.857	6.601			
7 10 95 2 1 1 0.5 23.416 22.761 0.656 7 10 95 2 1 1 21 21.852 20.72 1.132 7 10 95 2 1 1 0.5 23.595 22.928 0.668	71-5	-	├	1	-	-	0.5	28.156	22.917	5.239			
7 10 95 2 1 1 21 21.852 20.72 1.132 7 10 95 2 1 1 0.5 23.595 22.928 0.668	A0-1	<u> </u>	⊢	_	-	-	0.5	23.416	22.761	0.655	25.374	24.347	1.027
7 10 95 2 1 1 0.5 23.595 22.928 0.668	A0-1	\vdash	┢	_	<u> -</u>	-	21	21.852	20.72	1.132	25.064	24.059	1.005
	A0-2	-	├-	5 2	-	-	0.5	23.595	22.928	0.668	25.971	23.97	2.001
7 10 95 2 1 1 21 24.3 22.983 1.317	A0-2		╄	_	-	Ŀ	21	24.3	22.983	1.317	25.04	24.292	0.748
7 13 95 2 1 1 0.5 22.785 20.175 2.611	10-	+	╄	_	-	-	0.5	22.785	20.175	2.611	28.071	24.363	3.708
	2	1	4	-	-								Sheet 2 of 10

Station Month Day Year Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) TC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	4.092	7.86	7.661	8.5	6.967	17.867	16.746	4.742	4.175	0.939	1.006	7.022	6.964	9.152	8.399	6.76	7.953	6.575	7.102	4.516	1.044	0.94	Sheet 3 of 10
TIC (mg/L)	24.688	25.435	28.433	31.312	25.034	22.393	22.134	25.457	25.078	24.758	24.536	16.239	52.788	16.461	18.635	16.25	14.054	15.551	16.039	22.04	24.414	24.148	
TC (mg/L)	28.78	33.295	36.094	39.812	32.002	40.26	38.88	30.198	29.253	25.697	25.542	23.261	59.752	25.613	27.034	23.01	22.007	22.126	23.141	26.557	25.458	25.088	
DOC (mg/L)	2.845	3.733	60.9	5.319	6.683	8.364	8.712	4.03	3.507	1.138	0.623	6.855	8.156	8.408	7.414	7.075	7.144	7.393	6.716	7.444	1.547	1.326	
DIC (mg/L)	21.744	22.945	26.073	26.322	23.627	19.222	19.969	24.439	22.848	23.46	22.495	17.337	50.88	15.008	17.626	15.684	15.03	15.008	15.363	17.858	23.804	21.852	
TDC (mg/L)	24.589	26.678	32.163	31.641	30.31	27.586	28.681	28.469	26.355	24.598	23.118	24.192	59.036	23.416	25.04	22.759	22.174	22.401	22.079	25.303	25.351	23.177	
Depth (m)	9	1.5	0.5	4	ı	0.5	0.5	1	1	0.5	12	0.5	6	0.5	0.5	0.5	1	1	0.5	3	0.5	16	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	
Rep	1	-	1	1	1	1	2	1	2	1	1	1	1	1	1	1	1	2	1	1	1	+	
Round	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Year	92	92	92	92	98	98	92	92	95	96	92	92	95	92	96	92	95	95	95	95	95	95	
Day	13	13	13	13	12	12	12	13	13	10	10	11	11	11	11	11	11	11	11	11	5	10	
Month	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-4	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

Station	Month Day	Day	Year	Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (mg/L)	Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
SJB-2	۷.	10	96	7	ı	1	0.5	25.124	23.238	1.885	28.383	24.614	3.77
SJB-3	7	10	96	7	1	1	0.5	•	•	•	28.312	25.401	2.911
SJB-3	7	10	96	7	1	2	0.5	•	•	•	25.518	23.715	1.802
SJB-3	7	10	98	2	2	1	0.5	24.586	23.249	1.337	25.912	24.78	1.132
SJB-3	7	10	<u> </u>	7	3	1	0.5	•	•	•	25.291	24.214	1.076
SJB-3	7	10	92	2	1	1	11	22.103	22.695	-0.592	25.53	24.447	1.082
SJB-3	7	10	92	2	-	2	11	24.419	23.338	1.081	25.028	24.004	1.025
SJB-4	7	9	92	7	-	1	1.5	24.992	24.536	0.456	25.506	24.359	1.147
SJB-5	7	13	92	7	-	-	0.5	25.472	22.285	3.187	28.096	24.266	3.83
SJB-5	7	13	92	2	-	٦	11	26.504	23.173	3.331	27.201	23.746	3.454
TL-1	7	9	92	2	-	-	1.5	25.888	23.671	2.217	26.533	24.181	2.352
TL-2	7	12	92	2	-	-	0.5	26.218	22.264	3.955	28.444	23.292	5.153
TL-3	7	12	92	7	1	1	0.5	27.524	22.794	4.73	28.668	23.281	5.387
TL-4	7	12	95	2	-	1	1.5	28.93	23.93	4.999	32.735	25.034	7.701
TL-5	7	12	92	2	-	1	1	29.626	24.179	5.447	36.827	26.171	10.656
A0-1	7	24	92	3	ı	1	0.5	25.538	22.253	3.285	27.115	24.041	3.074
A0-1	7	24	92	3	1	1	18	26.513	23.34	3.173	26.99	22.981	4.01
A0-2	7	24	92	3	1	ı	0.5	26.129	23.128	3.001	27.167	23.524	3.642
A0-2	7	24	92	ဗ	1	1	18	27.572	22.52	5.051	26.617	23.718	2.899
LC-1	7	31	95	3	-	1	0.5	26.237	22.724	3.513	27.435	23.306	4.129
LC-1	7	31	95	၉	2	1	0.5	26.136	23	3.136	27.177	23.7	3.477
LC-1	7	31	95	3	-	1	7	26.192	23.03	3.162	28.576	24.164	4.413
													Sheet 4 of 10

LC-1 7 31 95 3 1 2 7 MP-1 7 27 95 3 1 1 0.5 MP-1 7 27 95 3 1 1 3 MP-2 7 27 95 3 1 1 0.5 MP-2 7 27 95 3 1 1 0.5 PL-1 7 26 95 3 1 1 0.5 PL-2 7 26 95 3 1 1 0.5 PL-3 7 24 95 3 1 1 0.5 SA-1 7 24 95 3 1 1 0.5 SA-1 7 24 95 3 1 1 0.5 SC-1 7 26 95 3 1 1 0.5	23.81 31.09 26.32 33.228 27.319 17.65 27.239	16.137 26.062 18.688 28.578 21.809 15.878 10.321 23.534 24.05	7.673 5.028 7.632 5.222 11.42 11.441 7.229 3.706		15.134 27.531 19.674 30.452 22.959 19.023	10.486
27 96 3 1 1 27 96 3 1 1 27 96 3 1 1 27 96 3 1 1 26 96 3 1 1 27 96 3 1 1 24 96 3 1 1 24 96 3 1 1 26 95 3 1 1 26 95 3 1 1 26 95 3 1 1	23.81 31.09 26.32 33.8 33.28 27.319 17.55 27.239	16.137 26.062 18.688 28.578 21.809 15.878 10.321 23.534 24.05	5.028 5.028 7.632 5.222 11.42 11.441 7.229 3.706	37.7 37.7 31.4 38.39 41.776 48.002 18.35	15.134 27.531 19.674 30.452 22.959 19.023	10.486
27 95 3 1 1 27 96 3 1 2 27 96 3 1 1 26 95 3 1 1 26 96 3 1 1 27 96 3 1 1 24 95 3 1 1 26 95 3 1 1 26 95 3 1 1 26 95 3 1 1 26 95 3 1 1	31.09 26.32 33.8 33.228 27.319 17.55 27.239	26.062	5.028 7.632 5.222 11.42 11.441 7.229 3.706	37.7 31.4 38.39 41.776 48.002 18.35	27.531 	10.169
27 96 3 1 2 27 96 3 1 1 27 96 3 1 1 26 96 3 1 1 27 96 3 1 1 24 96 3 1 1 24 96 3 1 1 26 95 3 1 1 26 96 3 1 1 26 95 3 1 1	26.32 33.8 33.228 27.319 17.55 27.239 27.239	18.688 28.578 21.809 15.878 10.321 23.534 24.05	7.632 5.222 11.42 11.441 7.229 3.706	31.4 38.39 41.776 48.002 18.35	19.674 30.452 22.959 19.023	11.726
27 95 3 1 1 27 96 3 1 1 26 96 3 1 1 27 96 3 1 1 24 96 3 1 1 24 96 3 1 1 26 95 3 1 1	26.32 33.88 33.228 27.319 17.55 27.239	18.688 28.578 21.809 15.878 10.321 23.534 24.05	7.632 5.222 11.42 11.441 7.229 3.706	38.39 41.776 48.002 18.35	19.674 30.452 22.959 19.023	11.726
27 96 3 1 1 26 96 3 1 1 27 96 3 1 1 24 95 3 1 1 26 95 3 1 1 26 95 3 1 1	33.228 27.319 17.55 27.239	21.809 15.878 10.321 23.534 24.05	5.222 11.42 11.441 7.229 3.706	38.39 41.776 48.002 18.35	30.452 22.959 19.023	
25 95 3 1 1 25 95 3 1 1 27 95 3 1 1 24 95 3 1 1 26 95 3 1 1	33.228 27.319 17.55 27.239 27.239	21.809 15.878 10.321 23.534 24.05	11.42 11.441 7.229 3.706	41.776 48.002 18.35	19.023	7.938
25 95 3 1 1 27 96 3 1 1 24 95 3 1 1 24 96 3 1 1 26 95 3 1 1	27.319 17.55 27.239 27.239	15.878 10.321 23.534 24.05	11.441 7.229 3.706	18.35	19.023	18.817
27 95 3 1 1 24 95 3 1 1 24 95 3 1 1 26 95 3 1 1	17.55 27.239 27.239	10.321 23.534 24.05	3.706	18.35	10.303	28.979
24 95 3 1 1 24 95 3 1 1 26 95 3 1 1	27.239	23.534	3.706	027 76	2	8.047
24 95 3 1 1 26 95 3 1 1	27.239	24.05	,,	50/./2	24.004	3.765
26 95 3 1 1			3.19	27.706	24.547	3.159
	24.53	15.132	9.398	25.599	15.231	10.367
7 26 95 3 1 1 8	38.98	30.761	8.219	35.697	23.864	25.195
7 26 95 3 1 1 1	24.337	13.845	10.492	27.014	14.625	12.389
SJ-2 7 26 95 3 1 1 0.5	24.309	14.816	9.492	27.091	15.206	11.885
SJ-3 7 26 95 3 1 1 1	23.567	14.011	9.556	24.058	14.368	9.69
SJ-3 7 26 95 3 2 1 1	23.798	13.87	9.928	24.029	14.268	9.761
SJ-4 7 26 95 3 1 1 1	24.087	14.451	9:636	24.78	15.082	9.699
SJ-5 7 26 95 3 1 1 0.5	23.163	14.368	8.795	24.655	14.733	9.922
SJ-5 7 26 95 3 1 1 5	46.239	36.679	9:26	31.596	23.1	16.993
SJB-1 7 24 95 3 1 1 0.5	26.046	22.852	3.194	26.316	23.257	3.059
7 24 95 3 1 1 16	26.015	22.944	3.071	26.897	23.626	3.271
					,	Sheet 5 of 10

Station Month	딮	Day	≻	Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (mg/L)	ear Round Rep Split Depth (m) TDC (mg/L)DIC (mg/L)DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
7		24	95	3	1	1	1	29.803	24.455	5.347	29.657	24.446	5.211
,	7	24	95	3	1	-	0.5	25.89	22.161	3.73	27.239	23.377	3.862
l	7	24	<u> </u>	3	1	1	11	27.489	23.663	3.826	28.36	24.4	3.96
	7	54	36	3	1	1	1.5	27.883	23.764	4.119	28.806	23.976	4.83
1	7	24	92	ဧ	2	1	1.5	26.337	23.156	3.181	28.09	24.206	3.884
l	7	24	92	ဧ	-	_	0.5	27.665	23.838	3.827	28.505	24.216	4.29
l	7	24	92	3	٦	ı	11	27.188	23.69	3.497	27.769	24.455	3.314
	7	24	92	3	_	-	1.5	27.312	21.746	5.566	32.086	22.059	10.026
	7	25	92	3	-	-	0.5	27.247	20.748	6.499	30.437	21.656	8.781
	7	25	92	3	ŀ	-	0.5	27.759	21	6.759	30.519	21.728	8.791
ı	7	25	92	3	-	-	-	29.374	24.163	5.211	31.858	25.142	6.716
ı	7	25	92	3	ŀ	-	0.5	31.777	22.15	9.627	40.539	24.253	16.286
I	8	7	92	4	-	ı	0.5	28.274	20.441	7.833	30.419	20.898	9.522
	8	7	92	4	-	_	18	29.024	20.382	8.642	31.492	20.915	10.578
	80	7	92	4	-	1	0.5	28.112	19.19	8.922	30.039	20.999	9.04
	8	7	96	4	1	-	15	28.193	19.714	8.479	30.835	20.788	10.047
	8	10	92	4	-	-	0.5	28.368	20	8.368	29.639	20.486	9.154
	8	10	92	4	2	1	0.5	29.286	19.883	9.403	28.591	20.042	8.55
	8	10	96	4	-	1	5	26.79	18.903	7.886	28.815	20.075	8.74
L	8	10	96	4	1	1	0.5	36.834	23.332	13.502	40.143	24.63	15.514
	8	10	96	4	1	-	3	48.28	32.03	16.25	32.077	21.482	10.595
	8	10	98	4	1	1	0.5	38.777	24.169	14.608	40.438	24.529	15.909
J													Sheet 6 of 10

Station Month Day Ye	Month	Day		Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (ma/L)	ar Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L)	TC (ma/L)	TIC (ma/l)	TOC (mg/l)
MP-2	8	10	98	4	-	-	3	29.969	21.139	8.831	52.284	37 976	19 308
PL-1	8	8	98	4	-	-	0.5	35.065	17.96	17.104	53.026	20.256	32.77
PL-1	8	8	98	4	-	2	0.5				•		
PL-2	8	8	95	4	1	1	0.5	35.053	17.27	17.783	52.841	18.53	34.311
PN-1	8	10	95	4	1	-	-	31.924	21.641	10.283	36.493	22.16	14.333
PN-1	8	10	92	4	1	2	-						
SA-1	8	7	95	4	1	1	0.5	28.747	20.399	8.348	28.701	21.117	7.583
SA-1	8	7	92	4	1	-	12	27.985	20.154	7.832	28.643	21.126	7.517
SC-1	8	6	95	4	-	1	0.5	21.324	11.559	9.766	21.368	11.077	10.291
SC-1	8	6	92	4	-	-	8	92.701	68.76	23.941	98.557	71.601	26.956
SC-1	8	6	92	4	-	2	8	45.993	33.983	24.021	47.714	35.006	25.417
SJ-1	8	6	95	4	-	1	2	21.53	10.781	10.749	25.416	10.984	14.432
SJ-2	8	6	92	4	-	-	0.5	24.312	13.25	11.062	25.816	13.453	12.364
SJ-3	8	6	92	4	1	1	-	22.721	12.523	10.198	22.861	11.99	10,871
SJ-3	8	6	92	4	1	2	-	•					
SJ-4	8	6	95	4	F	1	1	21.746	11.897	9.85	22.753	12.024	10.729
SJ-4	8	6	95	4	2	-	1	21.53	11.897	9.633	22.753	11.948	10.806
SJ-5	8	6	95	4	-	-	1	20.512	11.322	9.191	22.905	11.618	11.287
SJB-1	8	7	92	4	-	-	0.5	28.528	20.23	8.298	31.019	20.898	10.122
SJB-1	8	7	92	4	-	-	15	27.316	20.399	6.917	31.446	21.109	10.337
SJB-2	8	7	95	4	-	-	-	30.8	21.143	9.657	32.507	21.54	10.967
SJB-3	8	7	95	4		ᅴ	0.5	27.985	20.475	7.51	31.342	21.033	10.309
													Sheet 7 of 10

Station	Month Day	Day	Year	Round	Rep	Split	Depth (m)	TDC (mg/L)	DIC (mg/L)	ar Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	TC (mg/L)	TIC (mg/L)	TOC (mg/L)
SJB-3	8	^	95	4	-	-	11	27.812	20.517	7.295	28.851	20.619	8.232
SJB-4	8	7	95	4	-	1	1	27.928	20.686	7.241	30.835	21.447	9.388
SJB-4	8	7	92	4	1	7	1	•	-	•	•	•	•
SJB-5	8	7	92	4	-	1	9.0	29.22	21.363	7.857	31.238	21.963	9.276
SJB-5	8	7	95	4	-	-	10	28.493	20.999	7.494	29.646	21.396	8.25
TL-1	8	7	95	4	-	-	0.5	28.285	19.376	8.909	32.957	20.737	12.22
1-1	8	7	95	4	-	-	3.6	30.073	20.264	9.81	31.677	21.016	10.661
TL-2	8	8	95	4	-	-	0.5	27.975	18.979	8.996	31.212	20.187	11.025
TL-3	8	8	95	4	-	٠	0.5	29.112	19.134	9.978	29.484	19.531	9.952
TL-4	8	80	95	4	-	-	0.5	32.86	20.973	11.888	35.807	21.87	13.937
TL-4	8	80	95	4	-	-	10	35.413	25.305	20.215	36.863	27.109	19.508
TL-4	8	8	95	4	2	-	10	37.223	26.997	20.452	37.815	27.48	20.669
TL-5	8	8	95	4	-	-	0.5	33.475	23.173	10.302	35.645	23.95	11.695
90 1	8	22	95	5	-	-	0.5	26.165	23.365	2.8	25.694	23.307	2.387
A0-1	8	22	95	2	-	-	17	25.654	23.422	2.231	25.784	23.288	2.496
A0-2	8	22	95	2	-	-	9.0	24.19	22.79	1.4	25.443	23.509	1.934
A0-2	8	22	95	2	-	-	16	25.69	24.21	1.48	25.664	23.72	1.944
15-1	8	28	95	2	-	-	0.5	26.32	24.28	2.04	26.87	24.08	2.79
<u>1</u> 2	80	28	92	ည	-	1	8	27.54	25.73	1.81	26.9	24.45	2.45
MP-1	8	23	92	2	-	-	1.5	30.132	27.273	2.86	32.791	27.531	5.259
MP-2	8	23	95	2	_	-	0.5	37.038	30.947	60.9	40.029	32.057	7.972
MP-2	8	23	95	5	2	-	0.5	37.901	31.55	6.351	40.883	32.45	8.433
													Sheet 8 of 10
							-						

7.7		6 13.495								9 2 8 9 3 4 8												
101.01		25.726																<u> </u>				
		39.221	39.221	39.221 38.894 52.506	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859 25.583 26.566	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859 25.583 26.566 23.594 39.913	39.221 38.894 52.506 31.859 25.583 26.566 23.594 39.913	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859 25.583 26.566 23.594 39.913 23.729 23.729 24.541 24.357	39.221 38.894 52.506 31.859 26.566 23.594 39.913 23.729 24.541 24.116	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859 25.583 26.566 23.594 39.913 23.729 23.729 24.541 24.357 24.357	39.221 38.894 52.506 31.859 26.566 23.594 39.913 23.729 24.541 24.116 24.16 24.357 24.299 23.488	39.221 38.894 52.506 31.859 26.566 23.594 39.913 23.729 24.116 24.116 24.116 24.299 24.299 27.299 27.299 27.299 27.299 27.299	39.221 38.894 52.506 31.859	39.221 38.894 52.506 31.859 25.583 26.566 23.594 39.913 23.729 24.541 24.541 24.357 24.357 24.357 24.357 24.357 25.293 25.293 26.985	39.221 38.894 52.506 31.859 26.566 23.594 39.913 23.729 24.116 24.116 24.299 24.299 24.299 25.293 26.085 26.085
+			9.091																			
	+	26.055		23.299																		
33.80	25.75	35.146	38.339		29.789	29.789	29.789	29.789 25.6 26.28	29.789 25.6 26.28 20.618	29.789	29.789 	29.789 25.6 26.28 20.618 37.778 20.493	29.789 	29.789 25.6 26.28 20.618 37.778 20.493 21.72 21.72 23.353	29.789 25.6 26.28 20.618 37.778 20.493 21.72 22.667	29.789 25.6 26.28 20.618 37.778 20.493 21.72 22.667 23.353	29.789 25.6 26.28 20.618 37.778 20.493 21.72 21.72 22.667 23.353	29.789 25.6 26.28 20.618 37.778 20.493 21.72 22.667 23.353 22.783 22.328	29.789 26.28 20.618 37.778 20.493 21.72 22.667 23.353 22.783 22.783 22.783 22.783 22.783	29.789 25.6 26.28 20.618 37.778 20.493 21.72 22.667 23.353 22.783 22.783 22.783 22.783 22.783 22.783 22.783	29.789 25.6 26.28 20.618 37.778 20.493 21.72 22.667 22.667 22.6783 22.328 22.328 24.01 25.99 26.27	29.789 26.28 26.28 20.618 37.778 20.493 21.72 22.667 23.353 22.783 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328 22.328
6.5	-	0.7	0.5	1 1		2 1	°															
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,	8	\dagger	\dagger	+	8	à	+	+														
<u>-</u>		2 6	77.	Z Z	Ā -	SA-1	1	SA-1	SC-1	SC-1 SC-1	SA-1 SC-1 SJ-1	SA-1 SC-1 SL-1 SJ-1	SA-1 SC-1 SC-1 SJ-1 SJ-2	SA-1 SC-1 SJ-1 SJ-2 SJ-2	SA-1 SC-1 SC-1 SJ-2 SJ-2 SJ-3 SJ-3	SA-1 SC-1 SJ-1 SJ-2 SJ-3 SJ-3 SJ-3	SA-1 SC-1 SJ-1 SJ-2 SJ-3 SJ-3 SJ-3 SJ-4	SA-1 SC-1 SC-1 SJ-1 SJ-2 SJ-3 SJ-3 SJ-3 SJ-3 SJ-4 SJ-4 SJ-4	SA-1 SC-1 SJ-1 SJ-2 SJ-3 SJ-3 SJ-3 SJ-3 SJ-3 SJ-4 SJ-8	SA-1 SC-1 SJ-1 SJ-1 SJ-2 SJ-3 SJ-3 SJ-3 SJ-4 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-1 SJ-8-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ	SA-1 SC-1 SC-1 SJ-1 SJ-2 SJ-3 SJ-3 SJ-4 SJ-3 SJ-4 SJ-3 SJ-4 SJ-4 SJ-4 SJ-4 SJ-4 SJ-4 SJ-5 SJ-4 SJ-4 SJ-4 SJ-4 SJ-4 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1 SJ-1	SA-1 SC-1 SC-1 SJ-1 SJ-2 SJ-3 SJ-3 SJ-3 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8 SJ-8

mg/L)	4.815		2.777	2.466		6.434	3.535	7.278		8.138		Ī	6.856	4.037	5.351	1	Sheet 10 of 10	
) 10C (4.8	_	2.	2,4		اف	3.	7.		∞ 			9	4.	2		Sheet 1	
TIC (mg/L	24.709	•	24.2	24 411		22.318	23.643	24.071		22.547			23.591	25.557	26 206	22.2		
TC (mg/L)	29.525	•	26.977	26 877	20.5	28.752	27.178	31.349		30.685			30.447	29.594	31 557	21:50		
ear Round Rep Split Depth (m) TDC (mg/L) DIC (mg/L) DOC (mg/L) TC (mg/L) TIC (mg/L) TOC (mg/L)	2.65		1.57	1 52	1.32	5.945	3.204	5 588	200.5	5.968			5.057	3.018	A 505	4.363		
DIC (mg/L)	25.23		23.6	00 30	20.03	23.259	23.653	22 688	22.000	23.111			23.149	23.196	250	25.043		
TDC (mg/L)	27.88		25.17	50 00	10.07	29.204	26.857	250.00	20.270	29.079		•	28.206	26.213	100 00	29.634		
Depth (m)	1.5	1.5	2 5		10	0.5	3		0.0	0.5		0.5	0.5	12	! '	-		
Split	-	1	1	- -	-	1	-	· ·	-	1	1	7	-	L	1	-		
Rep	Ŀ	Ŀ	<u> </u>	1	-	Ŀ	Ŀ	1	_	-	1	-	Ŀ	r	-	_		
Round	ြင	L C	, "	,	വ	2	٤	,	Ω	C.	,	വ	5	١	,	ഹ		
∥≻		ä	8 8	66	92	5	8		92	9	3	92	ម	3 8		92		
Dav	22	3	7 8	77	22	22	;	*	24	24		22	5	5 6	\$	24		
Month	α	, .	٥	°	80	α	, ,	٥	∞	٥	٥	8	ŀ	ه ه	•	®		
Station	S IB.4		4-900	SJB-5	SJB-5	F			TL-2	F	2	TI-3	F		4-7	TL-5		-

Solids and Chlorophyll Concentrations for Station Month Day Year Round Rep Split Depth (rm) TSS (mg/L) VSS (mg/L) CHIA (ug/L) A0-1 6 26 95 1 1 1 2.6 60 0 0 0.13 A0-2 6 26 95 1 1 1 2.6 60 0 0 0.13 A0-2 6 26 95 1 1 1 2.6 60 0 0 0.13 A0-2 6 26 95 1 1 1 1 60 60 0 0 0.27 A0-2 6 26 95 1 1 1 1 6 64 4 0.53 LC-1 6 29 95 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Table C8	~									
VSS (mg/L) 0 0 4 4 4 6 6 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Solids ar	nd Chlor	ophyll	Conc	entration	is for	Open-	water Statio	n Locations		
1 6 26 35 1 1 1 0.5 62 0.5 <th< th=""><th>Station</th><th>Month</th><th>Day</th><th>Year</th><th>Round</th><th>Rep</th><th>Split</th><th>Depth (m)</th><th>TSS (ma/l.)</th><th>(ma/) NSV</th><th>A In C</th></th<>	Station	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (ma/l.)	(ma/) NSV	A In C
1 6 26 95 1 1 1 21 60 0 2 6 26 95 1 1 1 60 60 0 2 6 26 95 1 1 1 60 60 0 6 29 95 1 1 1 2 64 4 4 6 29 95 1 1 1 8 81 6 9 6 29 95 1 1 1 1 8 81 6 9 6 27 95 1 1 1 1 1 4 2 49 6 2 49 6 6 4 6 2 49 6 6 6 6 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4<	A0-1	9	56	92	_	-	-	0.5	62	(mg/L)	CIILA (ug/L)
2 6 26 95 1 1 1 0.5 61 4 2 6 26 95 1 1 1 16 54 5 6 29 95 1 1 1 16 54 4 6 29 95 1 1 1 16 64 4 6 29 95 1 1 1 1 8 81 4 6 27 95 1 1 1 1 6 4 6 7 95 1 1 1 1 1 6 4 6 6 27 95 1 1 1 0.5 95 24 2 6 28 95 1 1 1 0.5 95 24 1 6 28 95 1 1 1 0.5 95	A0-1	9	26	95	-	-	-	21	20		0.13
2 6 26 95 1 1 1 16 54 5 6 29 95 1 1 1 16 54 5 6 29 95 1 1 1 0.5 64 4 1 6 29 95 1 1 1 8 81 6 1 1 1 1 1 6 6 7 9 1 2 35 1 1 1 1.5 61 0 2 27 95 1 1 1 0.5 49 5 6 28 95 1 1 1 0.5 45 5 6 28 95 1 1 1 0.5 54 6 6 28 95 1 1 1 0.5 54 6 6 28 95 <td>A0-2</td> <td>9</td> <td>26</td> <td>95</td> <td>-</td> <td>-</td> <td>-</td> <td>0.5</td> <td>61</td> <td></td> <td>0.27</td>	A0-2	9	26	95	-	-	-	0.5	61		0.27
6 29 95 1 1 1 0.5 64 4 6 29 95 1 1 2 0.5 6 4 4 6 29 95 1 1 1 8 81 6 7 1 6 27 95 1 1 1 61 0 6 6 6 6 7 49 6 7 6 6 7 49 6 7 6 6 7 6 6 7 6 6 7 49 6 7 6 6 7 6 7 6 7 6 7	A0-2	9	26	92	-	-	-	16	2 2	t u	0.27
6 29 95 1 1 2 0.5 6 29 95 1 1 1 8 81 6 6 27 95 1 1 1 0.5 49 5 6 27 95 1 1 1 0.5 49 5 6 28 95 1 1 1 0.5 45 2 6 28 95 1 1 1 0.5 92 24 6 28 95 1 1 1 0.5 89 0 6 26 95 1 1 1 0.5 54 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 0.5 32 6 6 28	LC-1	9	29	95	-	-	-	0.5	64	0 4	1.47
6 29 95 1 1 1 8 81 6 6 27 95 1 1 1 1.5 61 0 6 27 95 1 1 1 0.5 49 5 6 28 95 1 1 1 0.5 45 2 6 28 95 1 1 1 0.5 92 24 6 28 95 1 1 1 0.5 89 0 6 28 95 1 1 1 0.5 54 1 6 28 95 1 1 1 0.5 54 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 20 20 2 6 28 95 1 <	LC-1	9	29	92	-	-	2	0.5			6.53
6 27 95 1 1 1 1.5 61 0 6 27 95 1 1 1 0.5 49 5 6 28 95 1 1 1 0.5 64 2 6 28 95 1 1 1 0.5 64 2 6 28 95 1 1 1 0.5 92 24 1 6 26 95 1 1 1 0.5 94 0 1 6 26 95 1 1 1 1.5 64 6 1 1 1 0.5 54 1	LC-1	9	29	95	-	-	-	8		. (4	
6 27 95 1 1 1 0.5 49 5 6 28 95 1 1 1 3.5 64 2 6 28 95 1 1 1 0.5 45 2 6 28 95 1 1 1 0.5 92 24 6 26 95 1 1 1 1.5 89 0 6 26 95 1 1 1 12.5 64 6 6 28 95 1 1 1 12.5 64 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 20 20 2 6 28 95 1 1 1 20 32 1 6 28 95 1	MP-1	9	27	95	-	-	-	5.	61		5.54
6 27 95 1 1 1 3.5 64 2 6 28 95 1 1 1 0.5 45 2 6 28 95 1 1 1 0.5 92 24 6 26 95 1 1 1 0.5 89 0 6 26 95 1 1 1 0.5 54 1 6 28 95 1 1 1 0.5 54 1 6 28 95 1 1 1 0.5 54 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 20 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1	MP-2	9	27	95	-	-	-	2 0	5		87
6 28 95 1 1 1 0.5 45 2 6 28 95 1 1 1 0.5 45 2 6 26 95 1 1 1 1.5 89 0 6 26 95 1 1 1 0.5 54 1 6 28 95 1 1 1 0.5 54 1 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 20 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 1 20 2 6 28 95 1	MP-2	9	27	95		-	1.		6	C	29.8
6 28 95 1 1 1 0.5 45 2 6 28 95 1 1 1 0.5 92 24 6 26 95 1 1 1 1.5 89 0 6 26 95 1 1 1 0.5 54 1 6 28 95 1 1 1 0.5 64 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 1 0.5	1		i	3 2	1.	- -	- -	3.5	64	2	43
6 28 95 1 1 0.5 92 24 6 26 26 95 1 1 1.5 89 0 6 26 26 95 1 1 1 0.5 54 1 6 28 95 1 1 1 12.5 64 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 0.5 2 6 28 95 1 1 1 1 0.5 2		3	87	ŝ	-	-	-	0.5	45	7	34.7
6 27 95 1 1 1 89 0 6 26 95 1 1 1 6.5 54 1 6 26 35 1 1 1 12.5 64 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 1 20 2	PL-2	9	28	92	-	-	1	0.5	92	24	50.1
6 26 95 1 1 1 0.5 54 1 6 28 95 1 1 1 12.5 64 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 0.5 32 1	PŅ-1	9	27	92	_	-	-	1.5	88	c	20.1
6 26 26 95 1 1 1 12.5 64 6 6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 20 2 6 28 95 1 1 1 1 21 0	SA-1	9	26	98	-	-	-	0.5	54) -	1.02
6 28 95 1 1 1 0.5 31 0 6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 1 21 0	SA-1	9	26	95	-	-	-	12.5	8	- 4	41.04
6 28 95 1 1 1 8 52 6 6 28 95 1 1 1 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 1 21 0	SC-1	9	28	95	-	-	-	202	31		17.0
6 28 95 1 1 1 20 2 6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 1 21 0	SC-1	9	28	95	-	-	-	25 &			
6 28 95 1 1 1 0.5 32 1 6 28 95 1 1 1 1 21 0	SJ-1	ی	28	95	-	-	+	,,	35	٥	3.47
6 28 95 1 1 1 1 0.5 32 1 6 28 95 1 1 1 1 21 0	613	, ,		3	-	-	+	_	20	2	29.1
6 28 95 1 1 1 1 1 21 0	2-00	٠	8	cs cs	-	-	-	0.5	32	-	26.2
Sheet 1 of 10	25-53		78	95			-	-	21	0	14.7
						İ					Sheet 1 of 10

									_														_
CHLA (ug/L)	15.2	15.8	32	0.27	0.27	5.61	4.2	3.74	28	11.5	21.4	0.93	6.68	9.88	23.8	2.4	57	0.67	0.13	0.53	0.13	0.67	Sheet 2 of 10
VSS (mg/L)	1	0	9	- 4	9	9	2	9	ε	9	4	4	9	7	9	5	10	9	10	2	1		
TSS (mg/L)	20	56	99	65	99	82	69	63	89	6 9	72	29	90	29	51	67	99	83	71	61	68	9/	
Depth (m)	1	9.0	9	9'0	14.5	0.5	9.0	12	9'0	9.0	11	1.5	9.0	9.0	9.0	13	0.5	0.5	21	0.5	21	9.0	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	Į Į	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Round	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
Year	92	92	92	95	92	92	92	92	92	92	92	92	92	95	92	95	92	95	92	92	95	92	
Day	28	28	28	26	26	26	56	56	56	97	56	56	29	59	29	29	28	10	10	10	10	13	
Month	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	7	7	7	7	7	
Station	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	SJB-4	SJB-5	SJB-5	TL-1	TL-2	TL-3	TL-4	TL-4	TL-5	A0-1	A0-1	A0-2	A0-2	LC-1	

CHLA (ug/L)	0.22	54.5	7.57	16.3	43.2	31.5	34.7		5.84	4.81	2.67	29.4	2.05	37.6	103.5	9.08	4.84	3.74		22.2	1.47	0.27	Sheet 3 of 10
VSS (mg/L)	28	4	2	11	6	28	24	6	9	2	8	ε	17	1	8	3	0	4	2	9	4	7	
TSS (mg/L)	198	8/	61	11	62	116	68	75	92	99	82	43	69	32	36	36	30	32	49	99	74	70	
Depth (m)	9	1.5	9.0	4	1	0.5	9'0	1	1	9'0	- 12	9.0	6	0.5	0.5	0.5	1	ı	0.5	ε	0.5	16	
Split	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Rep	ı	1	l	۱	1	1	2	1	7	1	1	l	1	1	1	1	ı	2	ı	ı	1	1	
Round	2	2	2	2	2	2	2	2	2	2	2	7	2	2	2	2	2	2	7	2	2	7	
Year	98	95	92	98	95	95	95	95	92	95	92	98	95	98	95	95	95	98	92	98	95	92	
Day	13	13	13	13	12	12	12	13	13	10	10	11	11	11	11	11	11	11	11	11	10	10	
Month	7	7	2	2	4	7	7	4	7	۷	7	7	7	7	7	2	7	7	7	7	7	7	
Station	LC-1	MP-1	MP-2	MP-2	PL-1	PL-2	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-4	SJ-4	SJ-5	SJ-5	SJB-1	SJB-1	

	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
SJB-2	7	5	92	2	1	1	0.5	22	8	5.34
SJB-3	7	10	92	2	-	1	0.5	82	4	4.81
SJB-3	7	10	96	2	1	2	0.5	•	•	•
SJB-3	7	9	92	2	2	1	0.5	72	0	3.2
SJB-3	7	10	92	2	8	-	0.5	•	•	•
SJB-3	7	10	98	2	1	1	11	80	5	2.67
SJB-3	7	5	98	2	1	2	11	•		•
SJB-4	7	5	98	2	-	1	1.5	81	9	6.9
SJB-5	7	13	92	2	1	-	9.0	87	10	3.34
SJB-5	_	13	92	2	-	-	11	85	6	3.07
T-1	^	9	92	2	-	-	1.5	75	10	4.77
TL-2	7	12	92	2	1	-	9.0	82	14	7.12
TL-3	7	12	92	2	-	-	9.0	85	10	14.7
TL-4	7	12	98	2	1	-	1.5	71	8	26.4
TL-5	7	12	92	2	F	1	1	64	10	15.1
A0-1	7	24	95	3	1	1	0.5	84	7	٠
A0-1	7	24	92	3	1	1	18	93	10	•
A0-2	7	24	92	3	1	1	0.5	94	10	
A0-2	7	24	98	ε	1	1	18	100	6	0
[5]	7	31	98	ε	1	1	0.5	63	10	0.13
1-5-1	7	31	92	ε	2	1	0.5	47	10	0.8
LC-1	7	31	98	ε	1	1	7	74	10	1.33
										Sheet 4 of 10

LC-1 7 31 96 3 1 2 7 63 96 3 1 2 48 6 34.7 MP-1 7 27 96 3 1 1 3 83 17 6.4 6.4 6 34.7 MP-1 7 27 96 3 1 2 3 10 6 3 17 6.7 4 6.7 4 6 34.7 MP-2 7 27 96 3 1 1 0.5 17 0 6.6.7 9 34.7 1 6.7 4 6 5 7 1 1 0.5 6 7 1 1 0.5 6 7 1 1 1 0.5 1 1 0.5 1 1 0.5 1 1 0.5 1 1 0.5 1 1 0.5 1 1 1 1	Station	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
7 27 96 3 1 1 0.6 48 6 7 27 96 3 1 1 3 83 17 7 27 96 3 1 1 3 83 17 7 27 96 3 1 1 0.6 27 0 7 26 96 3 1 1 3 87 9 7 26 96 3 1 1 0.6 58 7 0 7 26 96 3 1 1 0.6 58 7 1 1 0.6 58 7 1 1 0.6 58 7 1 1 1 0.6 34 1 1 1 0.6 34 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>LC-1</td> <td>7</td> <td>31</td> <td>96</td> <td>က</td> <td>-</td> <td>2</td> <td>7</td> <td>63</td> <td>6</td> <td></td>	LC-1	7	31	96	က	-	2	7	63	6	
7 27 95 3 1 1 3 83 17 7 27 95 3 1 2 3 106 17 7 27 95 3 1 1 0.5 27 0 7 25 96 3 1 1 0.5 58 7 0 7 26 96 3 1 1 0.5 58 7 13 1 1 0.5 100 13 1 1 0.5 100 13 1 1 0.5 13 1 1 0.5 13 1 1 0.5 100 13 1 1 0.5 100 11 0.5 100 11 0.5 100 11 0.5 100 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MP-1	7	27	95	က	-	-	0.5	48	9	34.7
7 27 95 3 1 2 3 106 17 7 27 95 3 1 1 0.5 27 0 7 27 95 3 1 1 0.5 57 0 7 25 95 3 1 1 0.5 58 7 7 25 95 3 1 1 0.5 13 1 1 2 0 13 1 1 2 0 1 1 0.5 15 1 1 1 2 0 1 1 1 2 0 0 1 1 1 2 0 0 1 <td< td=""><td>MP-1</td><td>7</td><td>27</td><td>92</td><td>8</td><td>-</td><td>-</td><td>3</td><td>83</td><td>17</td><td>67.4</td></td<>	MP-1	7	27	92	8	-	-	3	83	17	67.4
7 27 95 3 1 1 0.5 27 0 7 25 95 3 1 1 3 87 9 7 25 95 3 1 1 0.5 58 7 9 7 25 95 3 1 1 0.5 13 1 1 2 96 7 13 1 1 2 0 13 1 1 1 2 0 13 1 1 1 2 0 11 0.5 100 11 1 1 2 0 11 0 0.5 34 1 1 1 41	MP-1	7	27	95	9	-	2	3	106	17	•
7 27 95 3 1 1 3 87 99 7 25 95 3 1 1 0.5 58 7 7 25 95 3 1 1 0.5 58 7 7 26 95 3 1 1 0.5 100 11 7 24 95 3 1 1 0.5 34 6 7 26 95 3 1 1 8 10 0 7 26 95 3 1 1 8 10 0 7 26 95 3 1 1 8 10 0 7 26 95 3 1 1 4 3 7 26 95 3 1 1 4 0 3 7 26 95 3 1 1	MP-2	7	27	95	3	-	-	0.5	27	0	56.7
7 25 96 3 1 1 0.5 58 7 7 26 96 3 1 1 0.5 72 13 7 26 96 3 1 1 0.5 100 11 7 24 96 3 1 1 0.5 34 1 1 7 26 95 3 1 1 0.5 34 1 4 7 26 95 3 1 1 8 10 0 0 7 26 95 3 1 1 8 10 0	MP-2	7	27	95	3	-	-	3	87	6	15
7 25 95 3 1 1 0.5 72 13 7 24 95 3 1 1 1 2 0 11 7 24 95 3 1 1 1 94 6 11 7 26 95 3 1 1 8 10 0 0 1 7 26 95 3 1 1 8 10 0	PL-1	7	25	95	3	-	-	0.5	58	7	133.5
7 24 95 3 1 1 1 2 0 7 24 95 3 1 1 1 0.5 100 11 7 26 95 3 1 1 0.5 34 1 6 7 26 95 3 1 1 8 10 0 0 1 7 26 95 3 1 1 4 4 0	PL-2	7	25	95	3	-	-	0.5	72	13	72.7
7 24 95 3 1 1 0.5 100 11 7 26 95 3 1 1 0.5 34 1 6 7 26 95 3 1 1 8 10 0 0 7 26 95 3 1 1 41 44 4 7 26 95 3 1 1 40 34 3 7 26 95 3 1 1 40 34 3 7 26 95 3 1 1 40 34 3 7 26 95 3 1 1 40 3 2 7 26 95 3 1 1 6 6 7 26 95 3 1 1 6 7 8 24 95 3 1	PN-1	7	27	92	3	-	-	-	2	0	2.67
7 24 95 3 1 1 11 94 6· 7 26 95 3 1 1 0.5 34 1 1 7 26 95 3 1 1 41 41 44 4 7 26 95 3 1 1 0.5 35 3 3 7 26 95 3 1 1 40 3 3 7 26 95 3 1 1 41 6 3 7 26 95 3 1 1 41 6 3 7 26 95 3 1 1 6 6 3 7 26 95 3 1 1 6 7 29 8 36 3 1 1 6 7 9 8 36 3	SA-1	7	24	95	3	-	-	0.5	100	11	4.17
7 26 95 3 1 1 0.5 34 1 7 26 95 3 1 1 41 41 4 7 26 95 3 1 1 0.5 35 3 7 26 95 3 1 1 40 34 3 7 26 95 3 1 1 40 3 2 7 26 95 3 1 1 41 6 3 7 26 95 3 1 1 6 67 9 7 26 95 3 1 1 6 67 9 7 26 95 3 1 1 6 67 9 7 24 95 3 1 1 6 7 10 7 24 95 3 1	SA-1	7	24	95	3	-	-	11	94	9	2.54
7 26 95 3 1 1 8 10 0 7 26 95 3 1 1 4 4 4 7 26 95 3 1 1 1 40 3 7 26 95 3 1 1 40 3 7 26 95 3 1 1 41 6 7 26 95 3 1 1 6 2 7 26 95 3 1 1 6 67 9 7 26 95 3 1 1 6 67 9 7 26 95 3 1 1 6 67 9 7 24 95 3 1 1 6 7 10 8 1 1 1 1 1 1 1 </td <td>SC-1</td> <td>7</td> <td>26</td> <td>95</td> <td>3</td> <td>-</td> <td>-</td> <td>0.5</td> <td>34</td> <td>1</td> <td>18.7</td>	SC-1	7	26	95	3	-	-	0.5	34	1	18.7
7 26 95 3 1 1 41 41 4 7 26 95 3 1 1 1 34 3 3 7 26 95 3 1 1 40 3 2 7 26 95 3 1 1 41 6 2 7 26 95 3 1 1 5 67 9 7 26 95 3 1 1 5 67 9 7 24 95 3 1 1 6 9 7 24 95 3 1 1 6 9 9 7 24 95 3 1 1 1 10 9 1	SC-1	7	26	96	ဧ	-	-	8	10	0	1.87
7 26 95 3 1 1 0.5 35 3 7 26 95 3 1 1 1 40 3 7 26 95 3 1 1 1 41 6 7 26 95 3 1 1 0.5 29 2 7 26 95 3 1 1 5 67 9 7 24 95 3 1 1 0.5 77 10 7 24 95 3 1 1 16 87 11	SJ-1	7	26	95	3	-	-	1	41	4	23.6
7 26 95 3 1 1 1 34 3 7 26 95 3 1 1 40 3 7 26 95 3 1 1 41 6 7 26 95 3 1 1 5 67 9 7 24 95 3 1 1 6 7 10 7 24 95 3 1 1 6 7 10 7 24 95 3 1 1 6 7 10	SJ-2	7	26	95	3	-	-	0.5	35	3	70
7 26 95 3 2 1 1 40 3 7 26 95 3 1 1 41 6 7 26 95 3 1 1 5 67 9 7 24 95 3 1 1 6 7 10 7 24 95 3 1 1 6 7 11	SJ-3	7	26	95	8	-	-	1	34	3	-
7 26 95 3 1 1 1 41 6 7 26 95 3 1 1 0.5 29 2 7 26 95 3 1 1 5 67 9 7 24 95 3 1 1 0.5 77 10 7 24 95 3 1 1 16 87 11	SJ-3	7	26	95	3	2	1	1	40	8	0.27
7 26 95 3 1 1 0.5 29 2 7 26 95 3 1 1 5 67 9 7 24 95 3 1 1 0.5 77 10 7 24 95 3 1 1 16 87 11	SJ-4	7	26	92	3	-	-	1	41	9	0.18
7 26 95 3 1 1 5 67 9 7 24 95 3 1 1 0.5 77 10 7 24 95 3 1 1 16 87 11	SJ-5	7	26	92	3	1	-	0.5	29	2	19.7
7 24 95 3 1 1 0.5 77 10 7 24 95 3 1 1 16 87 11	SJ-5	7	26	92	က	-	1	2	67	6	11
7 24 95 3 1 1 1 6 87 11	SJB-1	7	24	92	က	1	1	0.5	77	10	3.12
	SJB-1	1	24	95	ဗ	-	1	16	87	11	•
											Sheet 5 of 1

Rep Split	\vdash	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
n n		0.5	95	12	1.6
3	-	11	101	10	2.4
3	1	1.5	119	13	11.2
3	2 1	1.5	89	10	18
3	1 1	0.5	92	12	9.61
3	1 1	11	110	11	3.17
3	1	1.5	69	9	6.68
e E	-	0.5	63	4	4.45
3	1	0.5	61	4	19.1
3	1 1	1 .	92	6	39.2
3	1 1	0.5	99	2	40.9
4	1 1	0.5	63	9	0.27
4	1 1	18	69	7	0.4
4	1 1	0.5	99	8	0.13
4	1 1	15	63	9	0.13
4	1 1	0.5	89	1	2
4	2 1	0.5	68	5	1.07
4	1 1	5	75	7	2.27
4	1 1	0.5	51	3	7.74
4	1 1	3	74	3	14.2
4	1 1	0.5	59	3	5.87
					Shoot 6 of 10

_																			_				
CHLA (ug/L)	46.5	74.8	•	40	49.4	•	1.56	2	17.1	1.72		41.1	51.5	1.87	•	2.1	2.67	29.1	1.07	0.33	5.61	0.89	Sheet 7 of 10
VSS (mg/L)	10	25	28	24	9	•	9	8	ε	31	•	4	4	9	1	ı	3	7	9	۷	7	12	
.TSS (mg/L)	72	100	102	92	29	•	73	72	27	06	•	128	37	30	27	34	36	32	63	75	65	72	
Depth (m)	3	0.5	0.5	0.5	1	1	0.5	12	0.5	8	8	2	0.5	1	-	1	1	1	0.5	15	1	0.5	
Split	1	1	2	1	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	
Rep	1	1	ı	1	1	1	١	1	1	ı	ı	ı	1	1	ı	1	2	1	1	1	1	1	
Round	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	. 4	4	4	4	4	
Year	92	92	98	92	95	92	92	95	98	95	92	98	92	92	98	98	92	92	98	92	92	92	
Day	10	8	8	8	10	10	7	7	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	. 8	
Station	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SC-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	

Station	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
SJB-3	8	7	98	4	-	-	11	70	9	3.47
SJB-4	8	2	36	4	1	1	1	73	4	2.86
SJB-4	8	7	96	4	1	2	1	70	8	
SJB-5	8	7	36	4	1	1	0.5	64	12	3.56
SJB-5	8	7	98	4	1	1	10	7.2	10	1.07
TL-1	8	7	36	4	1	1	0.5	64	10	2.67
TL-1	8	7	98	4	1	1	3.6	82	11	3.62
TL-2	8	8	96	4	1	1	0.5	92	6	6.45
TL-3	8	8	98	4	1	1	0.5	93	12	6.45
TL-4	8	8	96	4	1	1	0.5	22	7	21.4
TL-4	8	8	96	4	1	1	10	100	14	8.0
TL-4	8	8	98	4	2	1	10	87	11	4.39
TL-5	8	8	96	4	1	1	0.5	72	9	85.4
A0-1	8	22	36	5	1	1	0.5	99	9 ′	29'0
A0-1	8	22	98	5	1	-	17	99	12	0.53
A0-2	8	22	36	5	1	1	0.5	72	6	0.4
A0-2	8	22	92	5	1	1	16	99	9	0.4
LC-1	8	28	92	5	1	1	0.5	75	7	3.2
LC-1	8	28	92	5	-	-	8	84	11	4.81
MP-1	8	23	98	5	1	1	1.5	63	6	9.63
MP-2	8	23	98	5	. 1	-	0.5	51	6	34.2
MP-2	8	23	92	5	2	1	0.5	40	8	30.2
										Sheet 8 of 10

	T	Т	Т	T	T	T	Τ	T-	T	Т	T	Т	Т	Т	Т	Т	Т	Т	1	Т	Т	Т	Īē
CHLA (ug/L)	17.4	68.8	54.7	117.4	45.4	-	2.4	1.84		2.8	95.6	88.4	31.5	53.4		46.2	25.4	4.81	3.07	8.54	6.94	5.34	Shoot 9 of 10
VSS (mg/L)	5	5	0	22	9	7	7	10	5	7	13	8	6	8	7	6	4	9	9	15	10	8	
TSS (mg/L)	99	52	55	73	69	29	63	89	35	67	45	36	38	43	44	47	40	59	63	72	57	62	
Depth (m)	3	0.5	0.7	0.5	-	-	0.5	11	0.5	8	0.5	0.5	0.5	-	-	-	1	0.5	15	-	0.5	12	
Split	ı	-	-	-	-	2	-	1	-	-	-	1	1	1	2	1	1	1	1	1	1	-	
Rep	1	1	2	1	-	-	1	1	-	1	1	2	1	1	-	1	1	1	1	1	1	1	
Round	5	5	5	5	5	5	5	5	2	5	5	5	5	5	5	5	. 5	5	5	5	5	5	
Year	92	92	92	92	92	92	92	92	92	92	92	92	92	95	92	92	95	92	92	92	92	95	
Day	23	24	22	24	23	23	22	22	21	21	21	21	21	21	21	21	21	22	22	22	22	22	
Month	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Station	MP-2	PL-1	PL-1	PL-2	PN-1	PN-1	SA-1	SA-1	SC-1	SC-1	SJ-1	SJ-1	SJ-2	SJ-3	SJ-3	SJ-4	SJ-5	SJB-1	SJB-1	SJB-2	SJB-3	SJB-3	

Station	Month	Day	Year	Round	Rep	Split	Depth (m)	TSS (mg/L)	VSS (mg/L)	CHLA (ug/L)
S.IB-4	8	22	95	5	-	-	1.5	63	2	38.4
S.IB-4	8	22	92	ß	-	2	1.5	20	12	
S.JB-5	8	22	95	5	_	-	0.5	69	12	10.6
SJB-5	8	22	95	5	-	-	10	75	7	5.07
 		22	95	5	-	-	0.5	90	9	14.7
 - -		24	95	2	-	-	8	56	۷ .	3.6
- F		24	95	5	-	-	0.5	58	5	14.2
11.3		24	95	2	-	-	0.5	99	10	29.4
) F		22	95	2	-	2	0.5	99	8	•
} F	0 0	7	95	2	-	-	0.5	62	7	32
1 4		24	95	2	-	-	12	88	16	1.34
	8	24	95	2	-	-	1	62	80	11.2
										Sheet 10 of 10

Table C9	•							
Fecal Co	liform En	umera	tion Da	ata fo	r Oper	n-water Sam	Fecal Coliform Enumeration Data for Open-water Sampling Locations	
Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
A0-1	9	26	96	-	٦	0.5	888-	<2
A0-2	9	26	92	1	-	0.5	27	
SJB-1	9	56	98	1	1	0.5	8	
SJB-1	9	26	96	1	1	14.5	•	
SJB-2	9	26	92	1	-	0.5	888-	<2
SJB-3	9	26	92	-	-	0.5	888-	<2
SJB-3	9	26	92	-	1	12	•	
SJB-4	9	26	92	-	1	0.5	888-	<2
SJB-5	9	26	92	-	1	0.5	888-	<2
SJB-5	9	26	92	1	1	11	•	
SA-1	9	26	98	1	1	0.5	23	
SA-1	9	26	98	1	1	12.5	•	
LC-1	9	29	92	1	1	0.5	-888	<2
LC-1	9	29	96	1	1	8	80	
PN-1	9	27	98	1	1	1.5	5400	
MP-1	9	27	98	1	1	1.5	790	
MP-1	9	27	98	1	1	3	•	
MP-2	9	27	92	-	1	0.5	24000	
								Sheet 1 of 10
* Value o	f -888 indic	ates lim	it of me	asuren	ent not	met (<) or exc	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	sasurement

* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement limit value (in MPN/100mL)

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Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
MP.7	Œ	27	95	-	-	3.5	230	
NI 2	٥	28	95	-	-	1	3000	
21.5	ی	28	95	-	-	0.5	0006	
S.1.3	9	78	95	-	-	1	-888	>160000
8.1.8	9	28	95	-	-	1	20	
21.5	9	28	98	-	-	0.5	140	
2 2	9	28	95	-	-	9	-888	<2
SC-12	٥	28	95	-	-	0.5	23	
1,50	٥	28	95	-	-	8	-888	<2
1-1	9	76	95	-	-	1.5	240	
F	و	26	95	-	-	3.6	•	
TI 2	۳	29	95	-	-	0.5	2	
71.2	, "	2	55	Ŀ	-	0.5	110	
2 1	2 4	3 2	9	Ŀ	<u> </u> -	0.5	240	
* \	٥	3 8	8	Ŀ	-	13	888-	<2
† F	ی ا	3 8	95	<u> </u> -	-	0.5	23	
	٥	2 8	95	-	-	0.5	230	
	٥	2 8	95	-	-	0.5	888-	<2
2 5	,	10	95	_	-	0.5	-888	<20
2 5	\ \ \	2 2	95	-	<u> </u> -	0.5	-888	<20
707		2						Sheet 2 of 10
arle V	-888 indi	cates lin	nit of m	easure	ment no	t met (<) or e>	* Nature of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	neasurement
limit va	limit value (in MPN/100mL)	N/100ml	_					

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SJB-1	7	10	96	1	1	0.5	888-	<20
SJB-1	7	0	98	-	1	14.5	-888	<20
SJB-2	7	10	98	-	-	0.5	-888	<20
SJB-3	7	10	96	1	1	0.5	-888	<20
SJB-3	2	10	96	1	-	12	-888	· <20
SJB-4	7	10	92	-	-	0.5	-888	<20
SJB-5	7	13	98	-	-	0.5	230	
SJB-5	7	13	92	1	1	11	230	
SA-1	^	10	92	-	1	0.5	-888	<20
SA-1	7	10	92	-	-	12.5	888-	<20
اري 1-	7	13	98	-	-	9.0	-888	<20
LC-1	7	13	92	-	1	8	230	
PN-1	7	13	92	-	1	1.5	5000	
MP-1	7	13	95	-	1	1.5	2400	
MP-1	7	13	92	-	1	3		
MP-2	7	13	95	1	1	0.5	-888	> 16000
MP-2	7	13	98	1	1	3.5	-888	<20
SJ-1	7	11	92	-	1	1	40	
SJ-2	7	=	95	-	1	0.5	-888	> 16000
SJ-3	7	11	95	1	-	1	2400	
								Sheet 3 of 10
* Value of	f -888 indic	ates lim	it of me	asuren	nent not	: met (<) or ex	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement
> 22	?		}	;	:			

limit value (in MPN/100mL)

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SJ-4	۷	11	92	1	1		-888	<20
SJ-5	7	11	98	1	1	0.5	300	
SJ-5	7	11	92	-	1	9	-888	<20
SC-1	7	11	92	1	1	0.5	230	
SC-1	7	=	98	1	1	8	-888	<20
11-1	7	2	95	1	ı	1.5	-888	<20
1-1	7	5	98	1	1	3.6	•	
TL-2	7	12	95	1	1	0.5	110	
TL-3	7	12	95	_	1	0.5	500	
TL-4	7	12	95	1	-	0.5	-888	<20
TL-4	7	12	92	1	1	13		
TL-5	7	12	95	-	-	0.5	-888	<20
PL-1	7	12	92	-	1	0.5	-888	<20
PL-2	7	12	92	-	-	0.5	-888	<20
A0-1	7	24	95	-	-	0.5	-888	<20
A0-2	7	24	98	1	1	0.5	-888	<20
SJB-1	7	24	98	1	1	0.5	-888	<20
SJB-1	7	24	98	1	1	14.5	-888	<20
SJB-2	7	24	92	1	٦	0.5	130	
SJB-3	7	24	98	1	1	0.5	2400	
								Sheet 4 of 10
* Value o	f -888 indic	ates lin	nit of me	asuren	nent no	t met (<) or ex	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement
5 .	Value of -000 margaret	1400					•	

limit value (in MPN/100mL)

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SJB-3	۷ .	24	96	-	1	12	08	
SJB-4	7	24	<u> </u>	-	1	0.5	230	
SJB-5	7	24	98	-	1	0.5	2400	
SJB-5	7	24	96	-	-	11	888-	<20
SA-1	7	24	92	-	-	0.5	888-	<20
SA-1	7	24	98	-	-	12.5	230	
LC-1	7	31	92	-	1	0.5	888-	<20
LC-1	7	31	92	-	-	8	888-	<20
PN-1	7	27	95	_	-	1.5	240000	
MP-1	7	27	92	-	1	1.5	240000	
MP-1	7	27	92	-	1	3	2300	
MP-2	^	27	96	1	1	9.0	240000	,
MP-2	7	27	96	1	1	3.5	24000	
SJ-1	7	26	92	-	1	ı	270	
SJ-2	7	26	92	٦	1	9.0	-888	> 16000
SJ-3	7	26	98	1	1	1	-888	<20
SJ-4	7	26	92	1	1	1	-888	<20
SJ-5	7	26	92	1	1	9.0	-888	<20
SJ-5	7	26	98	1	1	9	-888	<20
SC-1	7	26	92	1	1	9.0	-888	<20
								Sheet 5 of 10
* Value of	f -888 indic	ates lim	it of me	asuren	ent not	met (<) or ex	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SC-1	7	26	95	-	-	8	-888	<20
1-1-	7	24	95	-	1	1.5	230	
TL-1	7	24	95	-	1	3.6		
TL-2	_	25	92	-	1	0.5	220	
TL-3	7	25	95	1	1	0.5	140	
TL-4	7	25	95	-	-	0.5	-888	<20
TL-4	7	25	95	1	1	13		
TL-5	7	25	95	-	٦	0.5	. 140	
<u>-</u>	_	25	95	-	-	0.5	70	
PI -2	_	25	95	_	-	0.5	-888	<20
40-1	α	1	95	-	-	0.5	888-	<20
200	,	<u> </u>	95	<u> </u> -	-	0.5	-888	<20
S IB 1	۵	1	95	<u> </u> -	-	0.5	230	
S B 1	α	-	95	<u> </u> -	-	14.5	500	
- 2000 C BI 2	۵	-	95	-	-	0.5	170	
2 C C C	, «	-	95	-	Ŀ	0.5	500	
S.B.3		-	96	-	-	12	80	
S IB-4		-	96	-	-	0.5	1100	
S.B.5	8	-	95	-	-	0.5	-888	> 1600000
0 B.5		-	95	-	_	=	300	
200	,							Sheet 6 of 10
* Varie	- 888 indi	cates lir	nit of m	easure	ment no	ot met (<) or ex	Value of .RRB indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	easurement
limit va	limit value (in MPN/100mL)	100m				,		

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
SA-1	8	7	96	1	1	0.5	40	
SA-1	8	7	92	1	1	12.5	230	
LC-1	8	10	92	1	1	0.5	230	
LC-1	8	10	98	1	1	8	-888	<20
PN-1	8	10	36	ļ	-	1.5	24000	
MP-1	8	10	96	-	-	1.5	-888	>160000
MP-1	8	10	96	-	-	3	24000	
MP-2	8	10	96	1	-	0.5	-888	> 160000
MP-2	8	10	98	-	,-	3.5	1300	
SJ-1	8	6	92	-	-	-	1300	
SJ-2	8	6	92	1	-	0.5	14000	
SJ-3	8	6	98	1	1	-	700	
SJ-4	8	6	95	1	1	1	888-	<20
SJ-5	8	6	92	1	1	0.5	80	
SJ-5	8	6	92	1	1	9	•	
SC-1	8	6	92	1	1	0.5	230	
SC-1	8	6	92	1	1	8	-888	<20
TL-1	8	7	92	1	1	1.5	500	
TL-1	8	7	92	1	1	3.6	888-	<20
TL-2	8	8	95	-	1	0.5	230	
								Sheet 7 of 10
* Value of	-888 indica	ites limi	t of mea	surem	ent not	met (<) or exc	Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement
limit valu	limit value (in MPN/100mL)	100mL)						

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
TL-3	80	8	<u> </u>	1	1	0.5	80	
TL-4	80	8	95	1	-	0.5	0006	
TL-4	æ	8	92	-	-	13	888-	<20
TL-5	8	8	92	1	1	0.5	300	
P1		8	95	-	-	0.5	5000	
PL-2	8	8	92	-	-	0.5	-888	<20
A0-1	8	22	95	-	1	0.5	800	
A0-2	8	22	95	-	1	0.5	-888	<20
SJB-1	8	22	95	-	1	0.5	230	
SJB-1	8	22	95	1	1	14.5	230	
SJB-2	8	22	95	-	1	0.5	130	
SJB-3	8	22	95	-	-	0.5	24000	
SJB-3	8	22	96	-	1	12	-888	<20
SJB-4	80	22	95	-	-	0.5	-888	<20
SJB-5	8	22	96	-	1	0.5	230	
SJB-5	8	22	92	1	1	11	230	
SA-1	80	22	95	1	-	0.5	80	
SA-1	8	22	96	1	1	12.5	230	
-51 -51	8	25	92	1	1	0.5	-888	<20
<u>5</u>		25	95	1	1	8	-888	<20
								Sheet 8 of 10
* Value o	of -888 indic	ates lin	nit of me	asuren	nent no	t met (<) or ex	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement
limit va	limit value (in MPN/100mL)	1/100mL	(

Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
PN-1	8	23	96	1	1	1.5	888-	> 160000
MP-1	æ	23	92	1	1	1.5	500	
MP-1	8	23	92	1	1	3	•	
MP-2	8	23	92	1	1	0.5	8000	
MP-2	8	23	98	1	1	3.5	1300	
SJ-1	8	21	98	1	1	1	008	
SJ-2	8	21	92	-	1	0.5	2400	
SJ-3	80	21	96	-	-	1	2400	
SJ-4	80	21	95	-	-	-	888-	<20
SJ-5	80	21	95	-	-	0.5	888-	<20
SJ-5	80	21	92	-	-	9	•	
SC-1	80	21	98	-	-	0.5	230	
SC-1	8	21	95	-	_	8	888-	<20
TL-1	8	22	95	-	-	1.5	. 40	
11-1	80	22	95	-	1	3.6	-888	<20
TL-2	8	24	95	1	1	0.5	230	
TL-3	8	24	95	1	1	0.5	9000	
TL-4	80	24	98	-	1	9.0	800	
TL-4	8	24	98	1	1	13	-888	<20
TL-5	8	24	96	-	1	9.0	270	
								Sheet 9 of 10
* Value of	f -888 indic	ates lim	it of me	asuren	nent not	met (<) or exc	* Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	asurement

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_	-)	1	20					
L		•			,	,		-	
_	PL-2	ထ	24	24 95	_	_	6.0	7400	
Ī									
_									Sheet 10 of 10
J									
•	Market at	O00 :	Section 1	it of mo	2021100	+00 +00	20 to 1/1 to m	1 Value of 000 indicates limit of monormont and mot (/) or exceeded (>) See FFCS1B for measurement	Surement
_	value or	200 IIIO	ares IIII		agant cil		וופר ו / / ח פער	200 17 1 000 1 F000 10 10 10 10 10 10 10 10 10 10 10 10	
_									
_	limit val	limit value (in MPN/100ml	/100ml	_					

Table C10	10	•		; }	ć	-		
recal C	olitorm E	numerati	on Data	ror I ribu	tary San	recal Coliform Enumeration Data for Inbutary Sampling Locations	tions	
Station	Month	Day	Year	Rep	Split	Depth (m)	FecCol (MPN/100 ml)*	FecSub
T-1	7	5	92	1	1		888-	> 160000
T-2	7	9	96	1	1	•	888-	> 160000
T-3	7	5	98	1	1		1600000	
T-4	7	5	98	1	1	-	1600000	
T-5	7	2	96	1	1	•	1600000	
1-6	7	2	96	1	1		1600000	
1-7	7	9	96	1	1		1600000	
T-8	7	2	96	1	1		888-	<200
1-1	7	17	98	-	-		888-	> 16000
T-2	7	17	96	1	1		888-	> 16000
T-3	7	17	96	1	1	-	888-	> 16000
T-4	7	11	96	1	1		-888	> 16000
T-5	7	17	98	1	1	•	-888	>16000
1-6	7	11	96	1	1	•	-888	>16000
T-7	7	17	36	1	1		-888	> 16000
T-8	7	17	96	1	1	•	230	
* Value	of -888 indi	cates limit	of measure	ment not	met (<) or	<) papaeaxa	Value of -888 indicates limit of measurement not met (<) or exceeded (>). See FECSUB for measurement	
limit va	limit value (in MPN/100mL)	V/100mL)						

Appendix D Sediment-Water Flux Data

Table D1	_												
Sediment-Water Flux Data	ıt-Wateı	' Flux	Data			:							
Station	Month	Day	Year	Rep	Split	Split Depth (m)	Temp (C)	SOC (g/m2/d)	NH4 (µg-at/m2/h	p (C) SOC (g/m2/d) NH4 (μg-at/m2/h NO3NO2 (μg-at/m2/h) NO2 (μg-at/m2/h) PO4 (μg-at/m2/h) Si (μg-at/m2/h)	NO2 (μg-at/m2/h)	PO4 (μg-at/m2/h)	Si (µg-at/m2/h)
SOS-1	8	10	<u> </u>	1	1	1.5	31	1.32	413.14	0	0	90.67	362.26
SOC-2	8	10	92	-	1	1.7	30	1.16	13.05	43.05	-2.25	-38.68	0
SJC-3	8	11	98	1	1	11.6	29	1.43	106.03	0	0	0.88	283.2
SJS-4	8	11	92	-	-	3.9	30	1.33	78.15	0	1.3	2.37	125.17
SJW-5	8	12	92	-	-	1.7	31.4	1	-27.48	0	0	0	0
9-MCS	8	12	96	1	1	1.7	31.4	1.23	-6.91	0	0	0	131.56
TL-7	8	14	98	1	1	1	31.8	1.21	160.06	0	0	6.7	253.43
8C-8	8	14	92	+	-	3.8	31.8	1.13	-42.97	-1.56	-1.42	1.51	172.59
PL-9	8	15	92	-	1	2.0	30.5	1.3	48.65	0	0	-1.39	533.46
PL-10	8	15	92	1	1	0.7	30.5	1.93	0	0	0	0	551.09

Appendix E QA/QC Data for Laboratory Analyses

Table E1	E1										
QA/Q	QA/QC Data for Laboratory Analyses	for La	borat	ory A	nalyse	S					
Value	Sample Month	Month	Day	Year	Rep	Split	Depth	Spkval	Samval	Spkamt	Recov
NH3N	SA-1	9	26	92	1	1	12.5	0.44	0.22	0.2	110
NH3N	MP-1	9	27	92	1	1	1.5	0.497	0.249	0.2	124
NH3N	SJ-3	9	28	95	1	1	1	0.518	0.321	0.2	98.5
NH3N	LC-1	9	29	92	1	-	0.5	0.438	0.229	0.2	104.5
NHN	T-1	7	5	92	1	1	666-	0.897	0.698	0.2	99.5
NH3N	SA-1	7	10	92	1	1	12.5	0.594	0.372	0.2	111
NH3N	SJ-1	7	11	92	1	-	1	0.248	0.053	0.2	97.5
NH3N	PL-2	7	12	92	2	-	0.5	0.209	0.016	0.2	96.5
NH3N	PN-1	7	13	92	2	-	-	0.376	0.178	0.2	66
NH3N	T-2	7	17	98	1	-	666-	0.427	0.202	0.2	112.5
NH3N	SJB-4	7	24	92	2	1	1.5	0.22	0.037	0.2	91.5
NH3N	PN-1	7	27	92	1	1	1	0.595	0.386	0.2	104.5
NH3N	666-	666-	666-	666-	666-	666-	666-	0.459	0.246	0.2	106.5
NH3N	LC-1	7	31	92	1	1	0.5	0.225	0	0.2	112.5
NH3N	SJB-3	8	7	92	1	1	11	0.464	0.242	0.2	111
NH3N	TL-2	8	8	92	1	1	0.5	0.441	0.259	0.2	91
NH3N	SJ-5	8	6	95	1	1	1	0.295	0.108	0.2	93.5
NH3N	T-3	8	16	92	-	1	666-	0.633	0.443	0.2	95
NH3N	SJ-4	8	21	92	-	-	1	0.751	0.488	0.2	131.5
NH3N	SA-1	8	22	92	-	1	11	0.307	0.054	0.2	126.5
										She	Sheet 1 of 6

H
23 95
24 95
28 95
28 95
1 95
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11 95
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13 95
13 95
13 95
17 95
17 95
24 95
25 95
26 95
14 95
27 95
7 95
8 95
96 6

Spkamt Recov	0.2 95	0.2 115	0.2 25	0.2 110	0.2 95	0.2 65	0.2 150	0.2 160	0.2 95	0.3 99.6	3 102.3	3 114.3	3 136.6	3 92	3 122.6	3 127.6	3 131.6	3 120	3 116	3 80.3		3 - 96
Samval Spk	0	0.3	0	0	0.01	0.01	1.2 0.	0.5	0.6 0.	0.307 0.	0.318 0.3	0.403 0.3	0.321 0.3	0.37 0.3	0.472 0.3	0.707 0.3	0.362 0.3	2.76 0.3	0.952 0.3	0.265 0.3	L	0.255 0.3
Spkval Sa	0.19	0.53	0.05	0.22	0.2	0.14	1.5	0.82	0.79	0.606 0	0.625 0.	0.746 0.	0.731 0.	0.646 0	0.84 0.	1.09 0.	0.757 0.	3.12	1.3 0.	0.506 0.	0.543 0	_
Depth	0.5	666-	0.5	-	1.5	0.5	666-	666-	666-	0.5	9	11	0.5	12	0.5	0.5	0.5	666-	666-	0.5	0.5	-
Split	-	1	1	1	-	-	666-	666-	666-	_	-	1	1	1	-	1	1	1	1	٦	-	
Rep	-	1	1	1	1	_	666-	666-	666-	_	1	1	1	1	1	1	1	1	1	1	2	
Year	92	92	92	92	92	92	92	98	92	92	92	92	98	92	95	98	95	92	92	92	92	-
h Day	10	9	20	22	23	24	17	20.	1	17	17	18	18	18	24	24	24	26	27	7	7	
Mont	8	8	∞	8	8	8	8	8	6	7	7	7	7	7	7	7	7	7	7	8	œ	
Sample Month	LC-1	T-3	SJ-2	SJB-2	MP-1	TL-2	C-4	D-8	E-10	A0-1	LC-1	SJB-5	SA-1	SA-1	PL-1	PL-2	TL-3	T-7	T-4	LC-1	LC-1	
Value	NO3N	NO3N	NOON	NO3N	NO3N	NO3N	NO3N	NO3N	NO3N	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	

	_																-		_	_	-	$\overline{}$	120
Recov	98.6	112	100	102.3	16	63.3	99	94.6	109.3	130	104	121.6	142.8	116	108	124	124	144	107.2	180.4	128	124	Sheet 4 of 6
Spkamt	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	Shi
Samval	0.904	0.326	0.358	0.703	0.757	1.34	0.378	0.358	0.662	1.09	0.33	600.0	0.046	0.024	0.054	0.097	0.129	0.022	0.181	0.21	0.011	0.004	
Spkval	1.2	0.662	0.658	1.01	1.03	1.62	0.546	0.642	0.99	1.48	0.642	0.04	0.082	0.053	0.081	0.128	0.16	0.058	0.207	0.255	0.043	0.035	
Depth	0.5	1	9.6	1	666-	666-	16	11	0.5	9.0	11	166	0.5	9.0	1.5	0.5	1	12	1.5	666-	666-	0.5	
Split	ı	1	l l	ı	ı	1	1	l	ı	ı	l	ı	·l	ı	1	1	1	ı	1	666-	666-	1	
Rep	1	2	1	1	1	1	1	1	1	1	1	ı	1	1	1	1	1	1	1	666-	-999	1	
Year	96	92	96	98	98	98	92	. 36	96	96	92	96	98	98	92	98	95	96	92	98	92	92	
Day	14	15	15	18	21	31	7	4	8	11	11	56	10	11	56	25	26	4	23	21	21	24	
Month	8	8	8	8	8	8	6	6	6	6	6	9	7	۷	7	7	4	8	8	8	8	7	
Sample	PL-2	SJB-4	TL-1	SJ-5	T-3	T-3	A0-2	SA-1	SJ-2	PL-2	A0-1	A0-2	SJB-1	TL-3	TL-1	TL-3	SJ-3	SA-1	MP-1	C-4	L-0	A0-1	
Value	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TKN	TP	TP	TP	TP	ΤP	ΤP	ΤP	ТР	ΤP	TP	TDP	

Recov	120	108	120	107.2	120	112	126.8	48	132	144	108	136	120	124	120	138	124	119.2	104	140	128	96	Sheet 5 of 6
Spkamt	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	She
Samval	0.173	0.02	0.026	0.002	800'0	0.074	0.019	0.025	0.104	990'0	0.062	0.124	0.028	0.016	0.007	0.028	0	0.101	0.004	0.119	0.04	0.012	
Spkval	0.203	0.047	0.056	0.029	0.038	0.102	0.051	0.037	0.137	0.092	0.089	0.158	0.058	0.047	0.037	0.063	0.031	0.131	0.03	0.154	0.072	0.036	
Depth	1	0.5	2	666-	0.5	1	1	0.5	666-	666-	- 1.5	1	0.5	4	0.5	12	18	2	2	1.5	0.5	0.5	
Split	1	l	1	ı	ļ	1	1	į	666-	666-	1	-	1	ı	-	1	1	1	1	1	1	٦	
Rep	1	-	1	1	1	1	1	-	666-	666-	1	ı	ı	1	1	1	1	1	1	-	1	1	
Year	98	92	96	96	98	96	96	96	96	96	96	92	96	<u> </u>	36	98	96	36	96	98	98	96	
Day	27	8	6	11	10	21	23	77	19	1	97	11	12	13	24	26	7	6	10	23	24	26	
Month	2	8	8	8	8	8	8	8	8	6	9	4	4	2	7	9	8	8	8	8	8	9	
Sample Month	PN-1	TL-2	SJ-1	T-3	LC-1	SJ-4	SJB-2	TL-2	C-4	E-12	MP-1	SJ-4	TL-2	LC-1	SA-1	SJB-3	A0-1	SJ-1	LC-1	MP-1	TL-2	SJB-3	
Value	TDP	TIP	TIP	TIP	TIP	TIP	TIP	TIP	TIP	TIP	TIP	TIP	DIP										

Sheet 6 of 6	She										
124	0.025	0.004	0.035	11	1	1	92	22	8	SA-1	DIP
104	0.025	0.002	0.028	0.5	l	2	96	10	8	LC-1	DIP
108	0.025	0.008	0.035	0.5	ı	1	96	4	8	SA-1	dia
128	0.025	0.012	0.044	3	ı	1	96	22	7	MP-1	dIQ
116	0.025	0.028	0.057	666-	ı	ı	96	11	۷	1-2	DIP
128	0.025	0.003	0.035	9.0	1	ı	<u> </u>	24	4	SJB-1	DIP
Recov	Spkamt	Samval	Spkval	Depth	Split	Rep	Year	Day	Month	Sample Month Day	Value

Appendix F Glossary of Variable Names

<u>V</u> ariable	Description	Units
CHLA	Chlorophyll A	ug/L
DAY	Day	day(1-31)
DEPTH	Depth	m
DIC	Dissolved Inorganic Carbon	mg/L
DIP	Dissolved Inorganic Phosphorus	mg/L
DISCHARGE	Tributary Discharge	m³/sec
DO	Dissolved Oxygen	mg/L
DOC	Dissolved Organic Carbon	mg/L
DOSAT	Dissolved Oxygen, Saturation	percent
DTKN	Total Dissolved Kjeldahl Nitrogen	mg/L
EVENT	Event Counter	3 5773 X / 4 O O - T
FECCOL	Fecal Coliform	MPN/100 mL
FECSUB	Fecal Coliform Limit of	MPN/100 mL
DICHE	Measurement	
INCUB	Type of Incubation	•
LATDEG	Latitude	degrees
LATDIR	Latitude Direction (N=North) Latitude	•
LATMIN		minutes
LONDEG LONDIR	Longitude	degrees
LONDIN	Longitude direction (W=West) Longitude	minutes
MONTH	Month	initiates
NH3N	Ammonia Nitrogen	mg/L
NH4	Ammonia Nitrogen Flux	μ g-at/m ² per hour
NO2	Nitrite Nitrogen Flux	μ g-at/m ² per hour
NO3N	Nitrate Nitrogen	mg/L
NO3NO2	Nitrate-Nitrite-Nitrogen Flux	μ g-at/m ² per hour
PH	pН	pH units
PO4	Ortho Phosphate Flux	μ g-at/m ² per hour
RECOV	Percent Recovery	
REP	Sample Replicate	
ROUND	Sampling Round	
SALINITY	Salinity	ppt
SAMVOL	Pre-spike Sample Concentration	
SECCHI	Secchi Disk Transparency	m
SI	Silica Flux	μ g-at/m ² per hour
SOC	Sediment Oxygen Consumption Rate	μ g-at/m ² per hour
SPCOND	Specific Conductivity	uS
SPKAMT	Effective Spike Concentration	
SPKVAL	Concentration of Sample	
SPLIT	Laboratory Replicate Number	
STATION	Station Name	
SULFIDE	Sulfide Total Carbon	ppt ma/I
TC	Total Disselved Carbon	mg/L
TDC	Total Dissolved Carbon	mg/L

TDP	Total Dissolved Phosphorus	mg/L
TEMP	Water Temperature	degrees C
TIC	Total Inorganic Carbon	mg/L
TIME	Time of Day	military time
TKN	Total Kjeldahl Nitrogen	mg/L
TOC	Total Organic Carbon	mg/L
TP	Total Phosphorus	mg/L
TSS	Total Suspended Solids	mg/L
TURB	Turbidity, Nephalometric	NTU
TYPE	Type of Sample Observation	
	(1=routine; 2=storm)	
VSS	Volatile Suspended Solids	mg/L
YEAR	Year	

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